

GI Descrip. (AF105716) copia-type pol polyprotein [Zea mays]

Seq. No.	26962	Seq. ID	OJ000113_25.0223.C3
Gene No.	55877	Strand	-
Start	698	End	1511
Name	OJ000113_25.0223.C3.o1.tm	Method	TBLASTX:Maize
Start	719	End	1375
GI	none	Score	380
Exons	719..1000, 729..1367, 1076..1375		

Seq. No.	26962	Seq. ID	OJ000113_25.0223.C3
Gene No.	55877	Strand	-
Start	698	End	1511
Name	OJ000113_25.0223.C3.o1.tw	Method	TBLASTX:Wheat
Start	1121	End	1510
GI	none	Score	52
Exons	1121..1378, 1239..1367, 1415..1510		

Seq. No.	26962	Seq. ID	OJ000113_25.0223.C3
Gene No.	55877	Strand	-
Start	698	End	1511
Name	OJ000113_25.0223.C3.o1.ts	Method	TBLASTX:Soybean
Start	1184	End	1510
GI	none	Score	69
Exons	1184..1510, 1191..1367, 1428..1490		

Seq. No.	26963	Seq. ID	OJ000113_25.0223.C4
Gene No.	55878	Strand	+
Start	179	End	1184
Name	OJ000113_25.0223.C4.o2.np	Method	AAT/NAP
Start	179	End	1184
GI	6721561	Score	123
Exons	179..284, 1060..1184		

GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	26963	Seq. ID	OJ000113_25.0223.C4
Gene No.	55879	Strand	-
Start	57	End	1184
Name	OJ000113_25.0223.C4.o1.np	Method	AAT/NAP
Start	57	End	1184
GI	4680183	Score	124
Exons	57..146, 1158..1184		

GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No.	26963	Seq. ID	OJ000113_25.0223.C4
Gene No.	55879	Strand	-
Start	57	End	1184
Name	OJ000113_25.0223.C4.o1.gs	Method	GENSCAN
Start	101	End	1173
GI	none	Score	.61
Exons	101..226, 1135..1173		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
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Gene No.	55880	Strand	+
Start	3339	End	9337
Name	OJ000113_25.0223.C5.o2.gs	Method	GENSCAN
Start	3339	End	9337
GI	none	Score	.54
Exons	3339..3350, 3560..4231, 4311..4346, 4776..5735, 5786..5969, 6207..7803, 7846..9337		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55880	Strand	+
Start	3339	End	9337
Name	OJ000113_25.0223.C5.o2.np	Method	AAT/NAP
Start	3626	End	4522
GI	5042448	Score	1333
Exons	3626..4187, 4227..4522		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55880	Strand	+
Start	3339	End	9337
Name	OJ000113_25.0223.C5.o3.np	Method	AAT/NAP
Start	4776	End	9334
GI	4680179	Score	7678
Exons	4776..9334		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55881	Strand	-
Start	1	End	1415
Name	OJ000113_25.0223.C5.o1.np	Method	AAT/NAP
Start	1	End	1415
GI	6907086	Score	1178
Exons	1..196, 421..591, 649..1415		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55881	Strand	-
Start	1	End	1415
Name	OJ000113_25.0223.C5.o1.gs	Method	GENSCAN
Start	666	End	1173
GI	none	Score	.51
Exons	666..998, 1072..1173		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55882	Strand	
Start	5039	End	5579
Name	OJ000113_25.0223.C5.o7.tw	Method	TBLASTX:Wheat
Start	5039	End	5399
GI	none	Score	304
Exons	5039..5143, 5043..5399, 5168..5395		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55882	Strand	
Start	5039	End	5579
Name	OJ000113_25.0223.C5.o6.tm	Method	TBLASTX:Maize
Start	5283	End	5579



GI	none	Score	209
Exons	5283..5579, 5283..5567, 5300..5470		
Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55883	Strand	
Start	5915	End	6334
Name	OJ000113_25.0223.C5.o8.tm	Method	TBLASTX:Maize
Start	5915	End	6235
GI	none	Score	182
Exons	5915..6235, 5959..6060		
Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55883	Strand	
Start	5915	End	6334
Name	OJ000113_25.0223.C5.o8.tw	Method	TBLASTX:Wheat
Start	5918	End	6334
GI	none	Score	155
Exons	5918..6127, 5953..6066, 6149..6334, 6178..6333		
Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55884	Strand	
Start	6497	End	7366
Name	OJ000113_25.0223.C5.o4.tw	Method	TBLASTX:Wheat
Start	6497	End	6979
GI	none	Score	536
Exons	6497..6979, 6601..6936		
Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55884	Strand	
Start	6497	End	7366
Name	OJ000113_25.0223.C5.o5.tm	Method	TBLASTX:Maize
Start	6509	End	6798
GI	none	Score	316
Exons	6509..6796, 6607..6798		
Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55884	Strand	
Start	6497	End	7366
Name	OJ000113_25.0223.C5.o4.ts	Method	TBLASTX:Soybean
Start	6533	End	6847
GI	none	Score	183
Exons	6533..6847, 6649..6846		
Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55884	Strand	
Start	6497	End	7366
Name	OJ000113_25.0223.C5.o4.tm	Method	TBLASTX:Maize
Start	6866	End	7366
GI	none	Score	150
Exons	6866..7045, 7031..7366, 7117..7248, 7121..7360		
Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55884	Strand	
Start	6497	End	7366
Name	OJ000113_25.0223.C5.o1.ts	Method	TBLASTX:Soybean
Start	6920	End	7315
GI	none	Score	57

Exons 6920..6952, 6922..6951, 6956..7315, 6956..7036, 7051..7314

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55884	Strand	
Start	6497	End	7366
Name	OJ000113_25.0223.C5.o5.tw	Method	TBLASTX:Wheat
Start	7028	End	7330
GI	none	Score	400
Exons	7028..7330, 7029..7130, 7048..7329		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55885	Strand	
Start	7331	End	7846
Name	OJ000113_25.0223.C5.o2.tw	Method	TBLASTX:Wheat
Start	7331	End	7846
GI	none	Score	626
Exons	7331..7846, 7363..7674, 7409..7756		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55885	Strand	
Start	7331	End	7846
Name	OJ000113_25.0223.C5.o3.ts	Method	TBLASTX:Soybean
Start	7337	End	7582
GI	none	Score	202
Exons	7337..7582		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55885	Strand	
Start	7331	End	7846
Name	OJ000113_25.0223.C5.o2.tm	Method	TBLASTX:Maize
Start	7403	End	7768
GI	none	Score	488
Exons	7403..7756, 7405..7671, 7457..7768, 7564..7761		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55886	Strand	
Start	7847	End	9342
Name	OJ000113_25.0223.C5.o3.tw	Method	TBLASTX:Wheat
Start	7847	End	8323
GI	none	Score	585
Exons	7847..8323, 7877..8290, 8068..8322		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55886	Strand	
Start	7847	End	9342
Name	OJ000113_25.0223.C5.o1.tc	Method	TBLASTX:Cress
Start	8030	End	8347
GI	none	Score	89
Exons	8030..8203, 8204..8347, 8206..8346		

Seq. No.	26964	Seq. ID	OJ000113_25.0223.C5
Gene No.	55886	Strand	
Start	7847	End	9342
Name	OJ000113_25.0223.C5.o2.ts	Method	TBLASTX:Soybean
Start	8111	End	8371
GI	none	Score	299
Exons	8111..8371, 8116..8370		

Seq. No. 26964  
Gene No. 55886  
Start 7847  
Name OJ000113\_25.0223.C5.o3.tm  
Start 8170  
GI none  
Exons 8170..8457, 8171..8461

Seq. ID OJ000113\_25.0223.C5  
Strand  
End 9342  
Method TBLASTX:Maize  
End 8461  
Score 392

Seq. No. 26964  
Gene No. 55886  
Start 7847  
Name OJ000113\_25.0223.C5.o1.tw  
Start 8330  
GI none  
Exons 8330..8956, 8332..8955

Seq. ID OJ000113\_25.0223.C5  
Strand  
End 9342  
Method TBLASTX:Wheat  
End 8956  
Score 731

Seq. No. 26964  
Gene No. 55886  
Start 7847  
Name OJ000113\_25.0223.C5.o1.tm  
Start 8510  
GI none  
Exons 8510..8671, 8518..8664, 8669..

Seq. ID OJ000113\_25.0223.C5  
Strand  
End 9342  
Method TBLASTX:Maize  
End 9109  
Score 223  
9109, 8671..9096

Seq. No. 26964  
Gene No. 55886  
Start 7847  
Name OJ000113\_25.0223.C5.o6.tw  
Start 8956  
GI none  
Exons 8956..9027, 8957..9289, 8984..

Seq. ID OJ000113\_25.0223.C5  
Strand  
End 9342  
Method TBLASTX:Wheat  
End 9289  
Score 367  
9064, 9049..9225, 9107..9268

Seq. No. 26964  
Gene No. 55886  
Start 7847  
Name OJ000113\_25.0223.C5.o7.tm  
Start 9113  
GI none  
Exons 9113..9310, 9130..9204, 9286..

Seq. ID OJ000113\_25.0223.C5  
Strand  
End 9342  
Method TBLASTX:Maize  
End 9342  
Score 197  
9342

Seq. No. 26965  
Gene No. 55887  
Start 206  
Name OJ000113\_25.0223.C6.o1.gs  
Start 206  
GI none  
Exons 206..319, 412..503

Seq. ID OJ000113\_25.0223.C6  
Strand +  
End 503  
Method GENSCAN  
End 503  
Score .53

Seq. No. 26965  
Gene No. 55888  
Start 1  
Name OJ000113\_25.0223.C6.o1.np  
Start 1  
GI 2909637  
Exons 1..341, 417..682  
GI Descrip. (AL021942) PE\_PGRS [Mycobacterium tuberculosis]

Seq. ID OJ000113\_25.0223.C6  
Strand -  
End 682  
Method AAT/NAP  
End 682  
Score 139

Seq. No.	26966	Seq. ID	OJ000113_25.0223.C7
Gene No.	55889	Strand	-
Start	1	End	1248
Name	OJ000113_25.0223.C7.o1.np	Method	AAT/NAP
Start	1	End	1248
GI	6014424	Score	24
Exons	1..98, 1006..1117, 1194..1248		
GI Descrip.	(AL121764) putative ATP-dependent RNA helicase [Schizosaccharomyces pombe]		

Seq. No.	26966	Seq. ID	OJ000113_25.0223.C7
Gene No.	55889	Strand	-
Start	1	End	1248
Name	OJ000113_25.0223.C7.o1.gs	Method	GENSCAN
Start	467	End	1248
GI	none	Score	.77
Exons	467..660, 972..1117, 1194..1248		

Seq. No.	26967	Seq. ID	OJ000113_25.0223.C8
Gene No.	55890	Strand	-
Start	202	End	2896
Name	OJ000113_25.0223.C8.o1.np	Method	AAT/NAP
Start	202	End	2093
GI	6014424	Score	260
Exons	202..320, 425..507, 614..757, 1243..1279, 2075..2093		
GI Descrip.	(AL121764) putative ATP-dependent RNA helicase [Schizosaccharomyces pombe]		

Seq. No.	26967	Seq. ID	OJ000113_25.0223.C8
Gene No.	55890	Strand	-
Start	202	End	2896
Name	OJ000113_25.0223.C8.o2.np	Method	AAT/NAP
Start	612	End	2896
GI	6746554	Score	72
Exons	612..637, 2624..2896		
GI Descrip.	(AF193765) 10-deacetylbaccatin III-10-O-acetyl transferase [Taxus cuspidata]		

Seq. No.	26967	Seq. ID	OJ000113_25.0223.C8
Gene No.	55890	Strand	-
Start	202	End	2896
Name	OJ000113_25.0223.C8.o1.gs	Method	GENSCAN
Start	1347	End	2884
GI	none	Score	.9
Exons	1347..1663, 2491..2884		

Seq. No.	26967	Seq. ID	OJ000113_25.0223.C8
Gene No.	55891	Strand	-
Start	3076	End	4898
Name	OJ000113_25.0223.C8.o2.gs	Method	GENSCAN
Start	3076	End	4898
GI	none	Score	.54
Exons	3076..3327, 3588..3695, 4402..4454, 4859..4898		

Seq. No.	26968	Seq. ID	OJ000113_25.0223.C9
Gene No.	55892	Strand	+

Start 641  
 Name OJ000113\_25.0223.C9.o2.gp  
 Start 641  
 GI none  
 Exons 641..1034

End 1034  
 Method AAT/GAP  
 End 1034  
 Score 746

Seq. No. 26968  
 Gene No. 55893  
 Start 7364  
 Name OJ000113\_25.0223.C9.o5.gp  
 Start 7364  
 GI none  
 Exons 7364..7491

Seq. ID OJ000113\_25.0223.C9  
 Strand +  
 End 7491  
 Method AAT/GAP  
 End 7491  
 Score 256

Seq. No. 26968  
 Gene No. 55894  
 Start 331  
 Name OJ000113\_25.0223.C9.o1.gp  
 Start 331  
 GI 5607411  
 Exons 331..616

Seq. ID OJ000113\_25.0223.C9  
 Strand -  
 End 616  
 Method AAT/GAP  
 End 616  
 Score 519

Seq. No. 26968  
 Gene No. 55895  
 Start 1454  
 Name OJ000113\_25.0223.C9.o1.np  
 Start 1454  
 GI 481223  
 Exons 1454..1584, 2219..2377

Seq. ID OJ000113\_25.0223.C9  
 Strand -  
 End 2377  
 Method AAT/NAP  
 End 2377  
 Score 42

GI Descrip. malate dehydrogenase (NADP+) (EC 1.1.1.82) - garden pea

Seq. No. 26968  
 Gene No. 55896  
 Start 2316  
 Name OJ000113\_25.0223.C9.o3.gp  
 Start 2316  
 GI none  
 Exons 2316..2673, 2792..2918, 3027..3119

Seq. ID OJ000113\_25.0223.C9  
 Strand -  
 End 5902  
 Method AAT/GAP  
 End 3119  
 Score 1044

Seq. No. 26968  
 Gene No. 55896  
 Start 2316  
 Name OJ000113\_25.0223.C9.o1.gs  
 Start 2558  
 GI none  
 Exons 2558..2645, 2855..2918, 3023..3099, 3186..3248, 3542..3591, 3665..3871, 4628..4855, 5812..5902

Seq. ID OJ000113\_25.0223.C9  
 Strand -  
 End 5902  
 Method GENSCAN  
 End 5902  
 Score .7

Seq. No. 26968  
 Gene No. 55896  
 Start 2316  
 Name OJ000113\_25.0223.C9.o4.gp  
 Start 3344  
 GI none  
 Exons 3344..3447

Seq. ID OJ000113\_25.0223.C9  
 Strand -  
 End 5902  
 Method AAT/GAP  
 End 3447  
 Score 112

Seq. No. 26969

Seq. ID OJ000113\_25.0223.C10

Gene No.	55897	Strand	+
Start	1	End	2040
Name	OJ000113_25.0223.C10.o1.np	Method	AAT/NAP
Start	1	End	2040
GI	3413473	Score	117
Exons	1..23, 1081..1138, 1229..1338, 1492..1589, 2016..2040		
GI Descrip.	(AJ006308) tyrosine phosphatase 1 [Glycine max]		

Seq. No.	26969	Seq. ID	OJ000113_25.0223.C10
Gene No.	55897	Strand	+
Start	1	End	2040
Name	OJ000113_25.0223.C10.o1.gp	Method	AAT/GAP
Start	669	End	1314
GI	none	Score	321
Exons	669..697, 1047..1138, 1229..1314		

Seq. No.	26969	Seq. ID	OJ000113_25.0223.C10
Gene No.	55897	Strand	+
Start	1	End	2040
Name	OJ000113_25.0223.C10.o1.gs	Method	GENSCAN
Start	1048	End	1602
GI	none	Score	.82
Exons	1048..1138, 1229..1311, 1462..1602		

Seq. No.	26969	Seq. ID	OJ000113_25.0223.C10
Gene No.	55897	Strand	+
Start	1	End	2040
Name	OJ000113_25.0223.C10.o1.tm	Method	TBLASTX:Maize
Start	1461	End	1607
GI	none	Score	180
Exons	1461..1607, 1474..1602		

Seq. No.	26970	Seq. ID	OJ000113_25.0223.C11
Gene No.	55898	Strand	+
Start	329	End	733
Name	OJ000113_25.0223.C11.o1.gp	Method	AAT/GAP
Start	329	End	643
GI	uC-osflcyp058g04b1	Score	284
Exons	329..414, 556..643		
GI Descrip.	'3413473/emb CAA06975.1  9.0e-34 (AJ006308) tyrosine phosphatase 1 [Glycine max]'		

Seq. No.	26970	Seq. ID	OJ000113_25.0223.C11
Gene No.	55898	Strand	+
Start	329	End	733
Name	OJ000113_25.0223.C11.o2.gp	Method	AAT/GAP
Start	329	End	733
GI	uC-osflcyp058g04b1	Score	409
Exons	329..414, 556..733		
GI Descrip.	'3413473/emb CAA06975.1  9.0e-34 (AJ006308) tyrosine phosphatase 1 [Glycine max]'		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55899	Strand	+
Start	2008	End	7434
Name	OJ000113_25.0223.C12.o1.gs	Method	GENSCAN
Start	2008	End	7434

GI	none	Score	.86
Exons	2008..2051, 3028..3080, 3390..3515, 4337..4527, 5085..5416, 5724..5814, 5921..5987, 6086..6183, 6277..6453, 6836..6912, 7137..7434		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55900	Strand	+
Start	8472	End	8756
Name	OJ000113_25.0223.C12.o1.gp	Method	AAT/GAP
Start	8472	End	8756
GI	none	Score	423
Exons	8472..8756		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55901	Strand	+
Start	17774	End	18229
Name	OJ000113_25.0223.C12.o3.gp	Method	AAT/GAP
Start	17774	End	18229
GI	4968598	Score	765
Exons	17774..18229		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55902	Strand	-
Start	8634	End	9263
Name	OJ000113_25.0223.C12.o2.gs	Method	GENSCAN
Start	8634	End	9191
GI	none	Score	.99
Exons	8634..9191		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55902	Strand	-
Start	8634	End	9263
Name	OJ000113_25.0223.C12.o2.gp	Method	AAT/GAP
Start	8795	End	9263
GI	19278.1.R1084	Score	889
Exons	8795..9263		
GI Descrip.	'2462834 8.0e-21 (AF000657) hypothetical protein [Arabidopsis thaliana].'		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55903	Strand	-
Start	10312	End	11566
Name	OJ000113_25.0223.C12.o3.gs	Method	GENSCAN
Start	10312	End	11566
GI	none	Score	.71
Exons	10312..10374, 10515..10639, 10668..10861, 11538..11566		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55904	Strand	-
Start	15373	End	16152
Name	OJ000113_25.0223.C12.o3.tm	Method	TBLASTX:Maize
Start	5213	End	5613
GI	none	Score	166
Exons	5213..5377, 5226..5417, 5229..5396, 5524..5613, 5524..5613		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55904	Strand	-

Start	15373	End	16152
Name	OJ000113_25.0223.C12.o2.ts	Method	TBLASTX:Soybean
Start	5216	End	5613
GI	none	Score	157
Exons	5216..5416, 5217..5417, 5523..5612, 5524..5613		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55904	Strand	-
Start	15373	End	16152
Name	OJ000113_25.0223.C12.o1.ts	Method	TBLASTX:Soybean
Start	8587	End	9068
GI	none	Score	73
Exons	8587..8703, 8637..8987, 8755..8985, 8965..9057, 8973..9068		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55904	Strand	-
Start	15373	End	16152
Name	OJ000113_25.0223.C12.o1.tm	Method	TBLASTX:Maize
Start	8641	End	8972
GI	none	Score	51
Exons	8641..8688, 8643..8972, 8752..8970		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55904	Strand	-
Start	15373	End	16152
Name	OJ000113_25.0223.C12.o1.tc	Method	TBLASTX:Cress
Start	8721	End	9068
GI	none	Score	88
Exons	8721..8972, 9000..9068		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55904	Strand	-
Start	15373	End	16152
Name	OJ000113_25.0223.C12.o5.gs	Method	GENSCAN
Start	15373	End	16152
GI	none	Score	.91
Exons	15373..16152		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55904	Strand	-
Start	15373	End	16152
Name	OJ000113_25.0223.C12.o1.tw	Method	TBLASTX:Wheat
Start	15454	End	15784
GI	none	Score	64
Exons	15454..15672, 15623..15784, 15679..15780		

Seq. No.	26971	Seq. ID	OJ000113_25.0223.C12
Gene No.	55905	Strand	-
Start	16063	End	16377
Name	OJ000113_25.0223.C12.o2.tm	Method	TBLASTX:Maize
Start	16063	End	16377
GI	none	Score	74
Exons	16063..16209, 16204..16365, 16219..16377, 16250..16372		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55906	Strand	+
Start	13349	End	23811



Name OJ000113\_25.0223.C14.o5.gs Method GENSCAN  
 Start 13349 End 19776  
 GI none Score :8  
 Exons 13349..13360, 13691..13759, 14857..15216, 15391..15622,  
 15944..16288, 16415..17374, 17546..17846, 17943..18117,  
 18217..19776

Seq. No. 26972 Seq. ID OJ000113\_25.0223.C14  
 Gene No. 55906 Strand +  
 Start 13349 End 23811  
 Name OJ000113\_25.0223.C14.o2.np Method AAT/NAP  
 Start 14905 End 23811  
 GI 5922631 Score 6581  
 Exons 14905..15029, 15288..15532, 15791..15998, 16044..16608,  
 16651..16801, 16928..17854, 18461..20944, 23764..23811  
 GI Descrip. (AP000492) ESTs C26347(C12145), AU078074(C12145) correspond to a  
 region of the predicted gene.; similar to prpol; Zea mays  
 retrotransposon Cinfu-1. (AF049110) [Oryza sativa]  
 gi|6016864|dbj|BAA85207.1| (AP000570) ESTs  
 C26347(C12145), AU078074(C12145) correspond to a region of the  
 predicted gene.; Similar to prpol; Zea mays retrotransposon  
 Cinfu-1. (AF049110) [Oryza sativ

Seq. No. 26972 Seq. ID OJ000113\_25.0223.C14  
 Gene No. 55906 Strand +  
 Start 13349 End 23811  
 Name OJ000113\_25.0223.C14.o4.gp Method AAT/GAP  
 Start 22526 End 22953  
 GI 2428185 Score 809  
 Exons 22526..22953  
 GI Descrip. 5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa  
 indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No. 26972 Seq. ID OJ000113\_25.0223.C14  
 Gene No. 55907 Strand +  
 Start 28542 End 29078  
 Name OJ000113\_25.0223.C14.o8.gs Method GENSCAN  
 Start 28542 End 29078  
 GI none Score .51  
 Exons 28542..29078

Seq. No. 26972 Seq. ID OJ000113\_25.0223.C14  
 Gene No. 55908 Strand +  
 Start 31941 End 35192  
 Name OJ000113\_25.0223.C14.o9.gs Method GENSCAN  
 Start 31941 End 35192  
 GI none Score .4  
 Exons 31941..32065, 32231..32993, 33329..33461, 34837..35192

Seq. No. 26972 Seq. ID OJ000113\_25.0223.C14  
 Gene No. 55909 Strand +  
 Start 35979 End 36706  
 Name OJ000113\_25.0223.C14.o4.np Method AAT/NAP  
 Start 35979 End 36700  
 GI 6227011 Score 355  
 Exons 35979..36123, 36272..36700  
 GI Descrip. (AC009513) F12P19.3 [Arabidopsis thaliana]

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55909	Strand	+
Start	35979	End	36706
Name	OJ000113_25.0223.C14.o6.gp	Method	AAT/GAP
Start	36150	End	36588
GI	LIB3433-051-P1-K1-E4	Score	811
Exons	36150..36588		
GI Descrip.	'115772/sp P12330 CB21_ORYSA 6.0e-24 CHLOROPHYLL A-B BINDING PROTEIN 1 PRECURSOR (LHCII TYPE I CAB-1) (LHCP) >gi_82460_pir_S03705 chlorophyll a/b-binding protein 1R precursor - rice >gi_20178_emb_CAA32108_ (X13908) chlorophyll a/b-binding preprotein (AA -31 to 235) [Oryza sativa]'		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55909	Strand	+
Start	35979	End	36706
Name	OJ000113_25.0223.C14.o10.gs	Method	GENSCAN
Start	36173	End	36706
GI	none	Score	1
Exons	36173..36706		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55910	Strand	-
Start	604	End	1990
Name	OJ000113_25.0223.C14.o1.gs	Method	GENSCAN
Start	604	End	1990
GI	none	Score	.55
Exons	604..684, 777..890, 1209..1267, 1305..1354, 1769..1990		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55911	Strand	-
Start	3447	End	4007
Name	OJ000113_25.0223.C14.o2.gs	Method	GENSCAN
Start	3447	End	4001
GI	none	Score	.61
Exons	3447..4001		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55911	Strand	-
Start	3447	End	4007
Name	OJ000113_25.0223.C14.o1.np	Method	AAT/NAP
Start	3450	End	4007
GI	6227011	Score	379
Exons	3450..4007		
GI Descrip.	(AC009513) F12P19.3 [Arabidopsis thaliana]		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55911	Strand	-
Start	3447	End	4007
Name	OJ000113_25.0223.C14.o1.gp	Method	AAT/GAP
Start	3593	End	4004
GI	15984_1.R1084	Score	798
Exons	3593..4004		
GI Descrip.	'2462834 5.0e-17 (AF000657) hypothetical protein [Arabidopsis thaliana]'		

Seq. No. 26972  
 Gene No. 55912  
 Start 6795  
 Name OJ000113\_25.0223.C14.o2.gp  
 Start 6795  
 GI 5803302  
 Exons 6795..7249

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 7249  
 Method AAT/GAP  
 End 7249  
 Score 898

Seq. No. 26972  
 Gene No. 55913  
 Start 9675  
 Name OJ000113\_25.0223.C14.o4.gs  
 Start 9675  
 GI none  
 Exons 9675..10223

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 10223  
 Method GENSCAN  
 End 10223  
 Score .69

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o1.tc  
 Start 1708  
 GI none  
 Exons 1708..1875, 1760..1876, 1825..1947, 3534..3800, 3553..3810, 3820..3870, 3843..3881, 9762..10037, 9763..10038, 9987..10109, 10048..10110, 28626..28778, 28658..28777, 28793..28891, 28794..28892, 28943..28990, 28944..28991, 36272..36406, 36283..36402, 36413..36502, 36415..36483, 36508..36615, 36512..36616

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Cress  
 End 36616  
 Score 67

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o2.tm  
 Start 1708  
 GI none  
 Exons 1708..1854, 1709..1852, 1734..1856, 3450..3674, 3456..3785, 3553..3783, 3699..3791, 9678..9947, 9684..10010, 9685..10011, 9689..10024, 28730..28777, 28731..28778, 28794..28904, 28803..29033, 28931..29020, 29028..29066, 36358..36402, 36359..36403, 36415..36501, 36425..36502, 36508..36681, 36512..36694

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Maize  
 End 36694  
 Score 126

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o1.ts  
 Start 1708  
 GI none  
 Exons 1708..1851, 1873..1947, 3450..3803, 3457..3810, 3808..3870, 3843..3881, 9678..10037, 9685..10038, 10026..10109, 10036..10098, 28623..28709, 28734..28790, 28794..28880, 28896..28934, 28943..29035, 28944..29048, 36347..36415, 36355..36411, 36415..36495, 36416..36502, 36512..36688, 36520..36684

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Soybean  
 End 36688  
 Score 154

Seq. No. 26972  
 Gene No. 55914

Seq. ID OJ000113\_25.0223.C14  
 Strand -

Start 24177  
 Name OJ000113\_25.0223.C14.o7.tw  
 Start 16212  
 GI none  
 Exons 16212..16481, 16213..16614

End 36694  
 Method TBLASTX:Wheat  
 End 16614  
 Score 290

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o6.tw  
 Start 17194  
 GI none  
 Exons 17194..17370, 17415..17651, 17419..17649

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Wheat  
 End 17651  
 Score 146

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o1.tw  
 Start 17871  
 GI none  
 Exons 17871..18326, 17872..18327

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Wheat  
 End 18327  
 Score 481

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o4.ts  
 Start 17911  
 GI none  
 Exons 17911..18135, 18142..18276

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Soybean  
 End 18276  
 Score 133

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o3.tm  
 Start 18000  
 GI none  
 Exons 18000..18347, 18001..18357

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Maize  
 End 18357  
 Score 365

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o2.tw  
 Start 18442  
 GI none  
 Exons 18442..18861, 18489..18863, 18540..18866

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Wheat  
 End 18866  
 Score 420

Seq. No. 26972  
 Gene No. 55914  
 Start 24177  
 Name OJ000113\_25.0223.C14.o2.ts  
 Start 18520  
 GI none  
 Exons 18520..18921, 18537..18680, 18553..18912

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694  
 Method TBLASTX:Soybean  
 End 18921  
 Score 280

Seq. No. 26972  
 Gene No. 55914  
 Start 24177

Seq. ID OJ000113\_25.0223.C14  
 Strand -  
 End 36694

Name	OJ000113_25.0223.C14.o4.tm	Method	TBLASTX:Maize
Start	18592	End	19032
GI	none	Score	266
Exons	18592..18843, 18621..18842, 18864..18995, 18865..19008, 19006..19032		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o8.tw	Method	TBLASTX:Wheat
Start	18870	End	19155
GI	none	Score	267
Exons	18870..18947, 18871..19152, 19060..19155		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o3.ts	Method	TBLASTX:Soybean
Start	19147	End	19535
GI	none	Score	71
Exons	19147..19251, 19287..19535, 19291..19533		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o4.tw	Method	TBLASTX:Wheat
Start	19156	End	19578
GI	none	Score	385
Exons	19156..19578, 19161..19502		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o6.tm	Method	TBLASTX:Maize
Start	19210	End	19482
GI	none	Score	134
Exons	19210..19380, 19384..19482		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o1.tm	Method	TBLASTX:Maize
Start	19896	End	20218
GI	none	Score	75
Exons	19896..19958, 19961..20218, 19975..20217		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o3.tw	Method	TBLASTX:Wheat
Start	20033	End	20415
GI	none	Score	396
Exons	20033..20413, 20033..20287, 20038..20415		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694

Name	OJ000113_25.0223.C14.o7.tm	Method	TBLASTX:Maize
Start	20360	End	20632
GI	none	Score	92
Exons	20360..20449, 20453..20536, 20546..20632		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o5.tw	Method	TBLASTX:Wheat
Start	20417	End	20935
GI	none	Score	340
Exons	20417..20893, 20563..20766, 20885..20935		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o5.tm	Method	TBLASTX:Maize
Start	20714	End	20958
GI	none	Score	169
Exons	20714..20896, 20743..20793, 20836..20895, 20875..20958, 20876..20953		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o7.gs	Method	GENSCAN
Start	24177	End	27112
GI	none	Score	.78
Exons	24177..24628, 24702..24815, 24878..25067, 25142..25252, 25254..25351, 25417..25655, 25852..26072, 26228..27112		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o3.np	Method	AAT/NAP
Start	24189	End	27112
GI	6691716	Score	2464
Exons	24189..24628, 24702..24815, 24965..25067, 25142..25339, 25417..25596, 25675..25775, 25852..26027, 26219..27112		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	26972	Seq. ID	OJ000113_25.0223.C14
Gene No.	55914	Strand	-
Start	24177	End	36694
Name	OJ000113_25.0223.C14.o9.tw	Method	TBLASTX:Wheat
Start	26702	End	26993
GI	none	Score	97
Exons	26702..26992, 26739..26993		

Seq. No.	26973	Seq. ID	OJ000113_25.0223.C15
Gene No.	55915	Strand	+
Start	1331	End	2724
Name	OJ000113_25.0223.C15.o1.gs	Method	GENSCAN
Start	1331	End	2724
GI	none	Score	.44

Exons 1331..1378, 2030..2131, 2698..2724

Seq. No.	26973	Seq. ID	OJ000113_25.0223.C15
Gene No.	55916	Strand	+
Start	4910	End	5791
Name	OJ000113_25.0223.C15.o1.np	Method	AAT/NAP
Start	4877	End	5791
GI	4803933	Score	292
Exons	4877..5420, 5569..5791		
GI Descrip.	(AC006264) putative disease resistance response protein [Arabidopsis thaliana]		

Seq. No.	26973	Seq. ID	OJ000113_25.0223.C15
Gene No.	55916	Strand	+
Start	4910	End	5791
Name	OJ000113_25.0223.C15.o2.gs	Method	GENSCAN
Start	4910	End	5446
GI	none	Score	.97
Exons	4910..5446		

Seq. No.	26973	Seq. ID	OJ000113_25.0223.C15
Gene No.	55916	Strand	+
Start	4910	End	5791
Name	OJ000113_25.0223.C15.o1.tc	Method	TBLASTX:Cress
Start	5003	End	5359
GI	none	Score	123
Exons	5003..5146, 5026..5145, 5167..5343, 5171..5359		

Seq. No.	26973	Seq. ID	OJ000113_25.0223.C15
Gene No.	55916	Strand	+
Start	4910	End	5791
Name	OJ000113_25.0223.C15.o1.tm	Method	TBLASTX:Maize
Start	5003	End	5454
GI	none	Score	182
Exons	5003..5170, 5011..5169, 5161..5454, 5162..5449		

Seq. No.	26973	Seq. ID	OJ000113_25.0223.C15
Gene No.	55916	Strand	+
Start	4910	End	5791
Name	OJ000113_25.0223.C15.o1.ts	Method	TBLASTX:Soybean
Start	5003	End	5439
GI	none	Score	108
Exons	5003..5146, 5026..5145, 5165..5308, 5167..5295, 5302..5439, 5309..5437		

Seq. No.	26974	Seq. ID	OJ000113_22.0225.C1
Gene No.	55917	Strand	-
Start	531	End	2406
Name	OJ000113_22.0225.C1.o1.gs	Method	GENSCAN
Start	531	End	2406
GI	none	Score	.6
Exons	531..701, 1784..1876, 2062..2406		

Seq. No.	26975	Seq. ID	OJ000113_22.0225.C2
Gene No.	55918	Strand	+
Start	738	End	3531
Name	OJ000113_22.0225.C2.o1.gs	Method	GENSCAN

Start	738	End	3352
GI	none	Score	.73
Exons	738..945, 1161..1247, 1339..1508, 1925..2067, 2156..2333, 2443..3040, 3240..3352		

Seq. No.	26975	Seq. ID	OJ000113_22.0225.C2
Gene No.	55918	Strand	+
Start	738	End	3531
Name	OJ000113_22.0225.C2.o1.np	Method	AAT/NAP
Start	738	End	3531
GI	4417267	Score	356
Exons	738..977, 1142..1241, 1339..1508, 1934..2067, 2156..2333, 2443..2757, 2791..3048, 3491..3531		
GI Descrip.	(AC007019) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	26975	Seq. ID	OJ000113_22.0225.C2
Gene No.	55918	Strand	+
Start	738	End	3531
Name	OJ000113_22.0225.C2.o2.tm	Method	TBLASTX:Maize
Start	1383	End	2051
GI	none	Score	123
Exons	1383..1508, 1383..1508, 1384..1509, 1385..1513, 1921..2028, 1922..2050, 1923..2051		

Seq. No.	26975	Seq. ID	OJ000113_22.0225.C2
Gene No.	55918	Strand	+
Start	738	End	3531
Name	OJ000113_22.0225.C2.o1.ts	Method	TBLASTX:Soybean
Start	2281	End	3362
GI	none	Score	64
Exons	2281..2334, 2444..2719, 2446..2610, 2450..2722, 2879..3046, 3231..3362		

Seq. No.	26975	Seq. ID	OJ000113_22.0225.C2
Gene No.	55918	Strand	+
Start	738	End	3531
Name	OJ000113_22.0225.C2.o1.tm	Method	TBLASTX:Maize
Start	2570	End	2743
GI	none	Score	199
Exons	2570..2743, 2575..2727		

Seq. No.	26975	Seq. ID	OJ000113_22.0225.C2
Gene No.	55918	Strand	+
Start	738	End	3531
Name	OJ000113_22.0225.C2.o1.tw	Method	TBLASTX:Wheat
Start	2588	End	2959
GI	none	Score	102
Exons	2588..2689, 2629..2688, 2630..2689, 2686..2949, 2687..2959, 2687..2959		

Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o2.tm	Method	TBLASTX:Maize
Start	4	End	243
GI	none	Score	237
Exons	4..243, 9..242		



Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o1.gs	Method	GENSCAN
Start	787	End	3107
GI	none	Score	.86
Exons	787..808, 925..1008, 1108..1244, 1279..1376, 1480..1802, 1981..2063, 2148..2223, 2303..2364, 2767..2814, 2946..3107		

Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o1.gp	Method	AAT/GAP
Start	903	End	1259
GI	LIB3434-042-P1-K1-A10	Score	349
Exons	903..1008, 1108..1259		
GI Descrip.	'1351887/sp P48977 ADH MALDO 3.0e-23 ALCOHOL DEHYDROGENASE >gi_1362042_pir_S57650 alcohol dehydrogenase (EC 1.1.1.1) - apple tree >gi_886885_emb_CAA88271_ (Z48234) alcohol dehydrogenase [Malus domestica]'		

Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o2.np	Method	AAT/NAP
Start	1069	End	3537
GI	1363501	Score	796
Exons	1069..1244, 1330..1376, 1480..1802, 1981..2063, 2148..2223, 2303..2364, 2767..2862, 2946..3107, 3452..3537		
GI Descrip.	gibberellin responsive protein LRG5 - garden lettuce gi 1401037 dbj BAA07911  (D44449) gibberellin-responsive gene product [Lactuca sativa]		

Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o1.tm	Method	TBLASTX:Maize
Start	1181	End	3537
GI	none	Score	94
Exons	1181..1243, 1182..1241, 1184..1246, 1251..1382, 1264..1392, 1327..1386, 1488..1802, 1488..1802, 1526..1804, 1543..1806, 1928..2065, 1971..2069, 2147..2224, 2148..2225, 2301..2366, 2302..2367, 2302..2382, 2764..2862, 2781..2861, 2948..3100, 2949..3107, 2977..3108, 3443..3535, 3450..3536, 3451..3537		

Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o1.tc	Method	TBLASTX:Cress
Start	1182	End	3109
GI	none	Score	65
Exons	1182..1259, 1321..1392, 1485..1553, 1486..1599, 1526..1609, 1622..1804, 1657..1806, 1971..2069, 1979..2056, 2764..2862, 2945..3109, 2946..3107		

Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
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Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o2.ts	Method	TBLASTX:Soybean
Start	1321	End	3535
GI	none	Score	76
Exons	1321..1392, 1504..1599, 1526..1609, 1621..1803, 1622..1804, 1980..2063, 2154..2222, 2305..2367, 3179..3235, 3446..3535		

Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o2.gp	Method	AAT/GAP
Start	1471	End	1798
GI	569128	Score	639
Exons	1471..1798		
GI Descrip.	1351887/sp P48977 ADH MALDO 3.0e-23 ALCOHOL DEHYDROGENASE >gi_1362042_pir_S57650 alcohol dehydrogenase (EC 1.1.1.1) - apple tree >gi_886885_emb_CAA88271_ (Z48234) alcohol dehydrogenase [Malus domestica]		

Seq. No.	26976	Seq. ID	OJ000113_22.0225.C3
Gene No.	55919	Strand	+
Start	787	End	3537
Name	OJ000113_22.0225.C3.o1.ts	Method	TBLASTX:Soybean
Start	2763	End	3062
GI	none	Score	139
Exons	2763..2861, 2764..2862, 2945..3058, 2946..3062, 2950..3060		

Seq. No.	26977	Seq. ID	OJ000113_22.0225.C4
Gene No.	55920	Strand	+
Start	957	End	3722
Name	OJ000113_22.0225.C4.o1.gs	Method	GENSCAN
Start	957	End	3722
GI	none	Score	.91
Exons	957..1036, 1231..1397, 1465..1586, 2526..2638, 2833..3101, 3541..3722		

Seq. No.	26977	Seq. ID	OJ000113_22.0225.C4
Gene No.	55921	Strand	-
Start	4276	End	7189
Name	OJ000113_22.0225.C4.o2.gs	Method	GENSCAN
Start	4276	End	7189
GI	none	Score	.42
Exons	4276..4558, 7023..7189		

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55922	Strand	+
Start	1875	End	2198
Name	OJ000113_22.0225.C5.o1.gs	Method	GENSCAN
Start	1875	End	2198
GI	none	Score	.61
Exons	1875..2198		

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55923	Strand	+
Start	2600	End	2851
Name	OJ000113_22.0225.C5.o1.gp	Method	AAT/GAP

Start 2600  
GI 2442568  
Exons 2600..2851

End 2851  
Score 470

Seq. No. 26978  
Gene No. 55924  
Start 10601  
Name OJ000113\_22.0225.C5.o4.gs  
Start 10601  
GI none  
Exons 10601..10716, 10731..10896, 11566..11688

Seq. ID OJ000113\_22.0225.C5  
Strand +  
End 11688  
Method GENSCAN  
End 11688  
Score .77

Seq. No. 26978  
Gene No. 55925  
Start 24436  
Name OJ000113\_22.0225.C5.o8.gs  
Start 24436  
GI none  
Exons 24436..24537, 24597..24738, 24833..24928, 25033..25414, 25464..25571, 26925..27387

Seq. ID OJ000113\_22.0225.C5  
Strand +  
End 27387  
Method GENSCAN  
End 27387  
Score .48

Seq. No. 26978  
Gene No. 55925  
Start 24436  
Name OJ000113\_22.0225.C5.o2.gp  
Start 24500  
GI none  
Exons 24500..24738, 24833..24928, 25033..25162

Seq. ID OJ000113\_22.0225.C5  
Strand +  
End 27387  
Method AAT/GAP  
End 25162  
Score 813

Seq. No. 26978  
Gene No. 55925  
Start 24436  
Name OJ000113\_22.0225.C5.o4.np  
Start 25033  
GI 6503012  
Exons 25033..25484

Seq. ID OJ000113\_22.0225.C5  
Strand +  
End 27387  
Method AAT/NAP  
End 25484  
Score 278

GI Descrip. (AF174428) FH protein interacting protein FIP1 [Arabidopsis thaliana]

Seq. No. 26978  
Gene No. 55925  
Start 24436  
Name OJ000113\_22.0225.C5.o3.gp  
Start 25576  
GI none  
Exons 25576..25842

Seq. ID OJ000113\_22.0225.C5  
Strand +  
End 27387  
Method AAT/GAP  
End 25842  
Score 514

Seq. No. 26978  
Gene No. 55926  
Start 28297  
Name OJ000113\_22.0225.C5.o6.np  
Start 28297  
GI 6503012  
Exons 28297..28326, 29630..30076

Seq. ID OJ000113\_22.0225.C5  
Strand +  
End 30421  
Method AAT/NAP  
End 30076  
Score 252

GI Descrip. (AF174428) FH protein interacting protein FIP1 [Arabidopsis thaliana]

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55926	Strand	+
Start	28297	End	30421
Name	OJ000113_22.0225.C5.o9.gs	Method	GENSCAN
Start	29159	End	30421
GI	none	Score	.79
Exons	29159..29327, 29436..29504, 29622..30055, 30275..30421		

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55926	Strand	+
Start	28297	End	30421
Name	OJ000113_22.0225.C5.o5.np	Method	AAT/NAP
Start	29628	End	30001
GI	4103635	Score	215
Exons	29628..30001		
GI Descrip.	(AF026538) ABA-responsive protein [Hordeum vulgare]		

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55927	Strand	+
Start	30534	End	38689
Name	OJ000113_22.0225.C5.o7.np	Method	AAT/NAP
Start	30534	End	34654
GI	2213608	Score	1080
Exons	30534..30573, 32827..34654		
GI Descrip.	(AC000103) F21J9.2 [Arabidopsis thaliana]		

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55927	Strand	+
Start	30534	End	38689
Name	OJ000113_22.0225.C5.o10.gs	Method	GENSCAN
Start	31285	End	31932
GI	none	Score	.87
Exons	31285..31477, 31559..31932		

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55927	Strand	+
Start	30534	End	38689
Name	OJ000113_22.0225.C5.o8.np	Method	AAT/NAP
Start	32852	End	36443
GI	4335720	Score	874
Exons	32852..33638, 33840..34966, 36395..36443		
GI Descrip.	(AC006248) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55927	Strand	+
Start	30534	End	38689
Name	OJ000113_22.0225.C5.o11.gs	Method	GENSCAN
Start	32862	End	38689
GI	none	Score	.42
Exons	32862..32936, 33098..33220, 33320..33398, 33462..33701, 34776..34979, 36288..36647, 37773..38620, 38678..38689		

Seq. No.	26978	Seq. ID	OJ000113_22.0225.C5
Gene No.	55927	Strand	+
Start	30534	End	38689
Name	OJ000113_22.0225.C5.o4.gp	Method	AAT/GAP

Start 36171  
GI 2442752  
Exons 36171..36464

End 36464  
Score 475

Seq. No. 26978  
Gene No. 55928  
Start 4892  
Name OJ000113\_22.0225.C5.o1.np  
Start 4892  
GI 6815052  
Exons 4892..5008, 8117..8548, 13861..13971  
GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 14095  
Method AAT/NAP  
End 13971  
Score 173

Seq. No. 26978  
Gene No. 55928  
Start 4892  
Name OJ000113\_22.0225.C5.o2.np  
Start 11112  
GI 6498436  
Exons 11112..11259, 12033..12270, 14067..14095  
GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 14095  
Method AAT/NAP  
End 14095  
Score 52

Seq. No. 26978  
Gene No. 55928  
Start 4892  
Name OJ000113\_22.0225.C5.o6.gs  
Start 13479  
GI none  
Exons 13479..14057

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 14095  
Method GENSCAN  
End 14057  
Score .99

Seq. No. 26978  
Gene No. 55929  
Start 15216  
Name OJ000113\_22.0225.C5.o7.gs  
Start 15216  
GI none  
Exons 15216..15420, 15587..15867, 16098..16215, 16232..16519, 17017..17198, 17649..17747, 18373..18476, 18738..18836, 19302..19348, 19910..20241, 21947..22018

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 22018  
Method GENSCAN  
End 22018  
Score .44

Seq. No. 26978  
Gene No. 55930  
Start 22953  
Name OJ000113\_22.0225.C5.o3.np  
Start 22953  
GI 6630699  
Exons 22953..23032  
GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 23032  
Method AAT/NAP  
End 23032  
Score 76

Seq. No. 26978  
Gene No. 55931  
Start 38546  
Name OJ000113\_22.0225.C5.o5.gp  
Start 38546  
GI none

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 38989  
Method AAT/GAP  
End 38989  
Score 812

Exons 38546..38989

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o7.tw  
Start 1420  
GI none  
Exons 1420..1626, 1487..1612

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Wheat  
End 1626  
Score 102

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o1.ts  
Start 5395  
GI none  
Exons 5395..5532, 5399..5563, 13384..13518, 13479..13517,  
13518..13664, 13534..13704, 13665..13877, 13711..13755,  
13837..13911

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Soybean  
End 13911  
Score 71

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o5.tw  
Start 8765  
GI none  
Exons 8765..9145

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Wheat  
End 9145  
Score 239

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o1.tm  
Start 24582  
GI none  
Exons 24582..24662, 24888..24926, 25025..25144, 25032..25142,  
25032..25154, 25081..25158, 25139..25243, 25139..25282,  
25143..25283, 25269..25325, 25277..25438, 25278..25460,  
25401..25484, 29168..29329, 29179..29328, 29409..29504,  
29410..29496, 29435..29503, 29620..29733, 29621..29728,  
29728..29871, 29732..29872, 29858..29941, 29859..29936,  
29909..30070, 29941..30066, 29967..30074

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Maize  
End 30074  
Score 69

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o1.tw  
Start 24826  
GI none  
Exons 24826..24927, 24877..24927, 25025..25459, 25032..25460,  
25401..25460, 29620..29874, 29621..29872, 29909..30052,  
29941..30030

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Wheat  
End 30052  
Score 63

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o3.ts  
Start 25025

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Soybean  
End 29875

GI none Score 309  
Exons 25025..25318, 25032..25331, 29620..29874, 29621..29875

Seq. No. 26978 Seq. ID OJ000113\_22.0225.C5  
Gene No. 55932 Strand -  
Start 39257 End 39401  
Name OJ000113\_22.0225.C5.o3.tc Method TBLASTX:Cress  
Start 25176 End 30061  
GI none Score 105  
Exons 25176..25265, 25302..25460, 25304..25435, 29765..29854,  
29909..30061

Seq. No. 26978 Seq. ID OJ000113\_22.0225.C5  
Gene No. 55932 Strand -  
Start 39257 End 39401  
Name OJ000113\_22.0225.C5.o4.tm Method TBLASTX:Maize  
Start 32945 End 33577  
GI none Score 106  
Exons 32945..33115, 33092..33379, 33449..33577

Seq. No. 26978 Seq. ID OJ000113\_22.0225.C5  
Gene No. 55932 Strand -  
Start 39257 End 39401  
Name OJ000113\_22.0225.C5.o2.tw Method TBLASTX:Wheat  
Start 32989 End 33370  
GI none Score 257  
Exons 32989..33081, 32990..33208, 33133..33207, 33173..33361,  
33196..33369, 33199..33357, 33203..33370

Seq. No. 26978 Seq. ID OJ000113\_22.0225.C5  
Gene No. 55932 Strand -  
Start 39257 End 39401  
Name OJ000113\_22.0225.C5.o6.ts Method TBLASTX:Soybean  
Start 33134 End 33415  
GI none Score 195  
Exons 33134..33415

Seq. No. 26978 Seq. ID OJ000113\_22.0225.C5  
Gene No. 55932 Strand -  
Start 39257 End 39401  
Name OJ000113\_22.0225.C5.o3.tw Method TBLASTX:Wheat  
Start 33541 End 33937  
GI none Score 400  
Exons 33541..33906, 33542..33925, 33545..33937

Seq. No. 26978 Seq. ID OJ000113\_22.0225.C5  
Gene No. 55932 Strand -  
Start 39257 End 39401  
Name OJ000113\_22.0225.C5.o4.ts Method TBLASTX:Soybean  
Start 33661 End 34081  
GI none Score 136  
Exons 33661..33861, 33662..33862, 33866..34081

Seq. No. 26978 Seq. ID OJ000113\_22.0225.C5  
Gene No. 55932 Strand -  
Start 39257 End 39401  
Name OJ000113\_22.0225.C5.o3.tm Method TBLASTX:Maize

Start 33737  
GI none  
Exons 33737..34090, 33766..34098

End 34098  
Score 297

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o6.tw  
Start 33938  
GI none  
Exons 33938..34147, 33946..34146

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Wheat  
End 34147  
Score 212

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o4.tw  
Start 34538  
GI none  
Exons 34538..34750, 34552..34737, 34796..34945

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Wheat  
End 34945  
Score 172

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o2.tc  
Start 36335  
GI none  
Exons 36335..36655, 36520..36660

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Cress  
End 36660  
Score 354

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o2.tm  
Start 36335  
GI none  
Exons 36335..36667, 36371..36649, 37742..38278, 37768..38241, 37771..38280, 37772..38119, 37772..38275, 37779..38279, 38159..38287, 38159..38425, 38291..38416, 38318..38413, 38465..38572

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Maize  
End 38572  
Score 478

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o2.ts  
Start 36335  
GI none  
Exons 36335..36655, 36407..36445, 36526..36654, 37771..37866, 37772..37939, 37772..37870, 37823..38026, 37931..38104, 38267..38413

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Soybean  
End 38413  
Score 339

Seq. No. 26978  
Gene No. 55932  
Start 39257  
Name OJ000113\_22.0225.C5.o1.tc  
Start 37775  
GI none  
Exons 37775..38047, 37798..38214, 37799..38215, 38159..38284, 38159..38284, 38294..38431

Seq. ID OJ000113\_22.0225.C5  
Strand -  
End 39401  
Method TBLASTX:Cress  
End 38431  
Score 150



Seq. No. 26978  
 Gene No. 55932  
 Start 39257  
 Name OJ000113\_22.0225.C5.o5.ts  
 Start 38414  
 GI none  
 Exons 38414..38647, 38456..38665

Seq. ID OJ000113\_22.0225.C5  
 Strand -  
 End 39401  
 Method TBLASTX:Soybean  
 End 38665  
 Score 198

Seq. No. 26978  
 Gene No. 55932  
 Start 39257  
 Name OJ000113\_22.0225.C5.o12.gs  
 Start 39257  
 GI none  
 Exons 39257..39401

Seq. ID OJ000113\_22.0225.C5  
 Strand -  
 End 39401  
 Method GENSCAN  
 End 39401  
 Score .97

Seq. No. 26979  
 Gene No. 55933  
 Start 427  
 Name OJ000113\_22.0225.C6.o1.tm  
 Start 212  
 GI none  
 Exons 212..403, 225..404, 386..535, 390..536, 412..537, 427..552, 523..972, 533..946, 533..982, 534..977, 955..1011, 980..1012, 981..1013

Seq. ID OJ000113\_22.0225.C6  
 Strand +  
 End 1013  
 Method TBLASTX:Maize  
 End 1013  
 Score 220

Seq. No. 26979  
 Gene No. 55933  
 Start 427  
 Name OJ000113\_22.0225.C6.o1.np  
 Start 427  
 GI 5123708  
 Exons 427..479, 538..1013  
 GI Descrip. (AL079347) RNA helicase (RH16) [Arabidopsis thaliana]

Seq. ID OJ000113\_22.0225.C6  
 Strand +  
 End 1013  
 Method AAT/NAP  
 End 1013  
 Score 156

Seq. No. 26979  
 Gene No. 55933  
 Start 427  
 Name OJ000113\_22.0225.C6.o1.tc  
 Start 539  
 GI none  
 Exons 539..820, 546..869, 822..929, 830..928

Seq. ID OJ000113\_22.0225.C6  
 Strand +  
 End 1013  
 Method TBLASTX:Cress  
 End 929  
 Score 293

Seq. No. 26979  
 Gene No. 55933  
 Start 427  
 Name OJ000113\_22.0225.C6.o1.ts  
 Start 852  
 GI none  
 Exons 852..1013, 857..1012

Seq. ID OJ000113\_22.0225.C6  
 Strand +  
 End 1013  
 Method TBLASTX:Soybean  
 End 1013  
 Score 214

Seq. No. 26980  
 Gene No. 55934  
 Start 25  
 Name OJ000113\_22.0225.C9.o1.gs  
 Start 25

Seq. ID OJ000113\_22.0225.C9  
 Strand -  
 End 934  
 Method GENSCAN  
 End 896

GI	none	Score	.92
Exons	25..896		
Seq. No.	26980	Seq. ID	OJ000113_22.0225.C9
Gene No.	55934	Strand	-
Start	25	End	934
Name	OJ000113_22.0225.C9.o1.gp	Method	AAT/GAP
Start	525	End	934
GI	none	Score	801
Exons	525..934		
Seq. No.	26981	Seq. ID	OJ000113_22.0225.C10
Gene No.	55935	Strand	+
Start	1	End	934
Name	OJ000113_22.0225.C10.o1.np	Method	AAT/NAP
Start	1	End	934
GI	2586083	Score	858
Exons	1..934		
GI Descrip.	(U72725) receptor kinase-like protein [Oryza longistaminata]		
Seq. No.	26981	Seq. ID	OJ000113_22.0225.C10
Gene No.	55935	Strand	+
Start	1	End	934
Name	OJ000113_22.0225.C10.o1.gs	Method	GENSCAN
Start	183	End	798
GI	none	Score	.54
Exons	183..798		
Seq. No.	26981	Seq. ID	OJ000113_22.0225.C10
Gene No.	55935	Strand	+
Start	1	End	934
Name	OJ000113_22.0225.C10.o1.tc	Method	TBLASTX:Cress
Start	213	End	506
GI	none	Score	83
Exons	213..314, 330..506, 335..484		
Seq. No.	26981	Seq. ID	OJ000113_22.0225.C10
Gene No.	55935	Strand	+
Start	1	End	934
Name	OJ000113_22.0225.C10.o1.ts	Method	TBLASTX:Soybean
Start	213	End	797
GI	none	Score	89
Exons	213..302, 333..530, 335..523, 372..563, 546..737, 569..736, 753..797		
Seq. No.	26981	Seq. ID	OJ000113_22.0225.C10
Gene No.	55935	Strand	+
Start	1	End	934
Name	OJ000113_22.0225.C10.o1.tm	Method	TBLASTX:Maize
Start	365	End	752
GI	none	Score	382
Exons	365..739, 366..752		
Seq. No.	26982	Seq. ID	OJ000113_22.0225.C11
Gene No.	55936	Strand	+
Start	162	End	976
Name	OJ000113_22.0225.C11.o1.gs	Method	GENSCAN

Start 162  
GI none  
Exons 162..363, 549..628, 826..897

End 897  
Score .6

Seq. No. 26982  
Gene No. 55936  
Start 162  
Name OJ000113\_22.0225.C11.ol.gp  
Start 211  
GI none  
Exons 211..363, 549..717, 950..976

Seq. ID OJ000113\_22.0225.C11  
Strand +  
End 976  
Method AAT/GAP  
End 976  
Score 535

Seq. No. 26982  
Gene No. 55936  
Start 162  
Name OJ000113\_22.0225.C11.ol.tm  
Start 281  
GI none  
Exons 281..361, 282..371, 534..707, 545..712, 545..712

Seq. ID OJ000113\_22.0225.C11  
Strand +  
End 976  
Method TBLASTX:Maize  
End 712  
Score 95

Seq. No. 26982  
Gene No. 55936  
Start 162  
Name OJ000113\_22.0225.C11.ol.tc  
Start 548  
GI none  
Exons 548..715, 557..715

Seq. ID OJ000113\_22.0225.C11  
Strand +  
End 976  
Method TBLASTX:Cress  
End 715  
Score 237

Seq. No. 26982  
Gene No. 55936  
Start 162  
Name OJ000113\_22.0225.C11.ol.ts  
Start 548  
GI none  
Exons 548..715, 557..715

Seq. ID OJ000113\_22.0225.C11  
Strand +  
End 976  
Method TBLASTX:Soybean  
End 715  
Score 252

Seq. No. 26983  
Gene No. 55937  
Start 342  
Name OJ000113\_22.0225.C12.ol.gs  
Start 342  
GI none  
Exons 342..481, 1175..1271, 2363..2450, 2495..2679, 2729..2899, 4153..4839, 5699..5825, 6665..7041, 8204..8333, 9048..9293

Seq. ID OJ000113\_22.0225.C12  
Strand +  
End 9293  
Method GENSCAN  
End 9293  
Score 51

Seq. No. 26983  
Gene No. 55937  
Start 342  
Name OJ000113\_22.0225.C12.ol.np  
Start 3681  
GI 5731257  
Exons 3681..3711, 4121..4971, 5227..5273  
GI Descrip. (AF165924) auxin-induced basic helix-loop-helix transcription factor [Gossypium hirsutum]

Seq. ID OJ000113\_22.0225.C12  
Strand +  
End 9293  
Method AAT/NAP  
End 5273  
Score 249

Seq. No. 26983  
Gene No. 55938

Seq. ID OJ000113\_22.0225.C12  
Strand -

Start 339  
 Name OJ000113\_22.0225.C12.o1.gp  
 Start 339  
 GI none  
 Exons 339..474

End 474  
 Method AAT/GAP  
 End 474  
 Score 233

Seq. No. 26983  
 Gene No. 55939  
 Start 11259  
 Name OJ000113\_22.0225.C12.o2.tc  
 Start 339  
 GI none  
 Exons 339..404, 340..414, 460..603, 507..590

Seq. ID OJ000113\_22.0225.C12  
 Strand -  
 End 11411  
 Method TBLASTX:Cress  
 End 603  
 Score 96

Seq. No. 26983  
 Gene No. 55939  
 Start 11259  
 Name OJ000113\_22.0225.C12.o1.tm  
 Start 339  
 GI none  
 Exons 339..404, 343..414, 343..459, 357..446, 453..599, 454..600

Seq. ID OJ000113\_22.0225.C12  
 Strand -  
 End 11411  
 Method TBLASTX:Maize  
 End 600  
 Score 121

Seq. No. 26983  
 Gene No. 55939  
 Start 11259  
 Name OJ000113\_22.0225.C12.o2.tm  
 Start 4222  
 GI none  
 Exons 4222..4266, 4372..4524, 4373..4525

Seq. ID OJ000113\_22.0225.C12  
 Strand -  
 End 11411  
 Method TBLASTX:Maize  
 End 4525  
 Score 45

Seq. No. 26983  
 Gene No. 55939  
 Start 11259  
 Name OJ000113\_22.0225.C12.o1.tc  
 Start 4372  
 GI none  
 Exons 4372..4521, 4373..4525

Seq. ID OJ000113\_22.0225.C12  
 Strand -  
 End 11411  
 Method TBLASTX:Cress  
 End 4525  
 Score 245

Seq. No. 26983  
 Gene No. 55939  
 Start 11259  
 Name OJ000113\_22.0225.C12.o1.ts  
 Start 4372  
 GI none  
 Exons 4372..4521, 4373..4525

Seq. ID OJ000113\_22.0225.C12  
 Strand -  
 End 11411  
 Method TBLASTX:Soybean  
 End 4525  
 Score 245

Seq. No. 26983  
 Gene No. 55939  
 Start 11259  
 Name OJ000113\_22.0225.C12.o2.gs  
 Start 11259  
 GI none  
 Exons 11259..11411

Seq. ID OJ000113\_22.0225.C12  
 Strand -  
 End 11411  
 Method GENSCAN  
 End 11411  
 Score 72

Seq. No. 26984  
 Gene No. 55940  
 Start 1226

Seq. ID OJ000113\_22.0225.C13  
 Strand +  
 End 1337

Name	OJ000113_22.0225.C13.ol.gs	Method	GENSCAN
Start	1226	End	1337
GI	none	Score	.48
Exons	1226..1337		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55941	Strand	+
Start	9774	End	12224
Name	OJ000113_14.0203.C1.o2.gs	Method	GENSCAN
Start	9774	End	12224
GI	none	Score	.82
Exons	9774..10058, 11004..12224		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55942	Strand	-
Start	1	End	6586
Name	OJ000113_14.0203.C1.ol.np	Method	AAT/NAP
Start	1	End	1754
GI	3757515	Score	94
Exons	1..107, 1286..1415, 1607..1754		
GI Descrip.	(AC005167) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55942	Strand	-
Start	1	End	6586
Name	OJ000113_14.0203.C1.ol.gs	Method	GENSCAN
Start	978	End	6586
GI	none	Score	.51
Exons	978..1031, 1247..1461, 1644..1902, 2048..2420, 2985..3156, 3986..4021, 4774..4875, 4970..5107, 5741..5896, 6009..6239, 6289..6586		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55943	Strand	-
Start	6627	End	6941
Name	OJ000113_14.0203.C1.ol.gp	Method	AAT/GAP
Start	6627	End	6941
GI	572060	Score	465
Exons	6627..6941		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55944	Strand	-
Start	14286	End	18861
Name	OJ000113_14.0203.C1.ol.tm	Method	TBLASTX:Maize
Start	1639	End	6195
GI	none	Score	91
Exons	1639..1740, 1774..1830, 4763..4831, 4989..5075, 5751..5879, 5785..5880, 6050..6169, 6052..6195, 6061..6192, 6138..6194		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55944	Strand	-
Start	14286	End	18861
Name	OJ000113_14.0203.C1.o3.gs	Method	GENSCAN
Start	14286	End	16742
GI	none	Score	.81
Exons	14286..14402, 14880..15032, 15606..16742		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55944	Strand	-
Start	14286	End	18861
Name	OJ000113_14.0203.C1.o3.np	Method	AAT/NAP
Start	14295	End	18861
GI	3289002	Score	756
Exons	14295..14402, 14689..14760, 14880..15032, 15606..16537, 18834..18861		
GI Descrip.	(AF073522) CRP1 [Zea mays]		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55944	Strand	-
Start	14286	End	18861
Name	OJ000113_14.0203.C1.o2.tm	Method	TBLASTX:Maize
Start	14677	End	16388
GI	none	Score	100
Exons	14677..14763, 15606..15989, 15693..16115, 15696..16043, 15801..16211, 15900..16325, 16149..16388		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55944	Strand	-
Start	14286	End	18861
Name	OJ000113_14.0203.C1.o1.tc	Method	TBLASTX:Cress
Start	15606	End	16289
GI	none	Score	109
Exons	15606..15983, 15787..16047, 15789..16163, 15939..16289		

Seq. No.	26985	Seq. ID	OJ000113_14.0203.C1
Gene No.	55944	Strand	-
Start	14286	End	18861
Name	OJ000113_14.0203.C1.o1.ts	Method	TBLASTX:Soybean
Start	15609	End	16319
GI	none	Score	67
Exons	15609..15977, 15741..16292, 15762..15998, 15796..16047, 15951..16319		

Seq. No.	26986	Seq. ID	OJ000113_14.0203.C2
Gene No.	55945	Strand	+
Start	2468	End	2953
Name	OJ000113_14.0203.C2.o1.ts	Method	TBLASTX:Soybean
Start	2459	End	2941
GI	none	Score	417
Exons	2459..2941, 2521..2940		

Seq. No.	26986	Seq. ID	OJ000113_14.0203.C2
Gene No.	55945	Strand	+
Start	2468	End	2953
Name	OJ000113_14.0203.C2.o1.gp	Method	AAT/GAP
Start	2468	End	2933
GI	27110_1.R1084	Score	914
Exons	2468..2933		
GI Descrip.	'1171577/emb1CAA64636  9.0e-35 (X95343) hypersensitivity-related gene [Nicotiana tabacum]'		

Seq. No.	26986	Seq. ID	OJ000113_14.0203.C2
Gene No.	55945	Strand	+
Start	2468	End	2953

Name	OJ000113_14.0203.C2.ol.np	Method	AAT/NAP
Start	2519	End	2953
GI	1171577	Score	361
Exons	2519..2953		
GI Descrip.	(X95343) hypersensitivity-related gene [Nicotiana tabacum]		

Seq. No.	26986	Seq. ID	OJ000113_14.0203.C2
Gene No.	55945	Strand	+
Start	2468	End	2953
Name	OJ000113_14.0203.C2.ol.gs	Method	GENSCAN
Start	2525	End	2947
GI	none	Score	.99
Exons	2525..2947		

Seq. No.	26986	Seq. ID	OJ000113_14.0203.C2
Gene No.	55945	Strand	+
Start	2468	End	2953
Name	OJ000113_14.0203.C2.ol.tw	Method	TBLASTX:Wheat
Start	2542	End	2773
GI	none	Score	161
Exons	2542..2664, 2543..2710, 2705..2773		

Seq. No.	26987	Seq. ID	OJ000113_14.0203.C3
Gene No.	55946	Strand	+
Start	1	End	363
Name	OJ000113_14.0203.C3.ol.np	Method	AAT/NAP
Start	1	End	363
GI	1171577	Score	297
Exons	1..363		
GI Descrip.	(X95343) hypersensitivity-related gene [Nicotiana tabacum]		

Seq. No.	26987	Seq. ID	OJ000113_14.0203.C3
Gene No.	55947	Strand	+
Start	1725	End	2550
Name	OJ000113_14.0203.C3.o2.np	Method	AAT/NAP
Start	1725	End	2550
GI	5852093	Score	84
Exons	1725..1831, 2432..2550		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	26987	Seq. ID	OJ000113_14.0203.C3
Gene No.	55948	Strand	-
Start	22	End	342
Name	OJ000113_14.0203.C3.ol.ts	Method	TBLASTX:Soybean
Start	3	End	306
GI	none	Score	322
Exons	3..137, 7..306, 216..284		

Seq. No.	26987	Seq. ID	OJ000113_14.0203.C3
Gene No.	55948	Strand	-
Start	22	End	342
Name	OJ000113_14.0203.C3.ol.gs	Method	GENSCAN
Start	22	End	342
GI	none	Score	.68
Exons	22..342		

Seq. No.	26988	Seq. ID	OJ000113_14.0203.C4
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Gene No.	55949	Strand	+
Start	1	End	4633
Name	OJ000113_14.0203.C4.o1.np	Method	AAT/NAP
Start	1	End	1624
GI	1171577	Score	103
Exons	1..89, 1304..1624		
GI Descrip.	(X95343) hypersensitivity-related gene [Nicotiana tabacum]		

Seq. No.	26988	Seq. ID	OJ000113_14.0203.C4
Gene No.	55949	Strand	+
Start	1	End	4633
Name	OJ000113_14.0203.C4.o1.gs	Method	GENSCAN
Start	1313	End	4633
GI	none	Score	.86
Exons	1313..1404, 3122..3205, 4456..4633		

Seq. No.	26988	Seq. ID	OJ000113_14.0203.C4
Gene No.	55950	Strand	-
Start	2513	End	3024
Name	OJ000113_14.0203.C4.o1.gp	Method	AAT/GAP
Start	2513	End	3024
GI	LIB3434-038-P1-K1-F1	Score	704
Exons	2513..3024		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	26989	Seq. ID	OJ000113_14.0203.C5
Gene No.	55951	Strand	+
Start	2866	End	11006
Name	OJ000113_14.0203.C5.o2.gs	Method	GENSCAN
Start	2866	End	11006
GI	none	Score	.51
Exons	2866..2880, 4169..4455, 4987..5505, 5627..5816, 6586..6946, 7023..7221, 7250..7427, 7470..7581, 7801..7928, 8014..8121, 8787..8893, 10754..11006		

Seq. No.	26989	Seq. ID	OJ000113_14.0203.C5
Gene No.	55951	Strand	+
Start	2866	End	11006
Name	OJ000113_14.0203.C5.o1.np	Method	AAT/NAP
Start	5189	End	8220
GI	3080369	Score	405
Exons	5189..5462, 7329..7452, 7486..7581, 7831..7928, 8014..8220		
GI Descrip.	(AL022580) putative protein [Arabidopsis thaliana]		

Seq. No.	26989	Seq. ID	OJ000113_14.0203.C5
Gene No.	55951	Strand	+
Start	2866	End	11006
Name	OJ000113_14.0203.C5.o1.gp	Method	AAT/GAP
Start	6781	End	7183
GI	none	Score	756
Exons	6781..7183		

Seq. No.	26989	Seq. ID	OJ000113_14.0203.C5
Gene No.	55951	Strand	+
Start	2866	End	11006
Name	OJ000113_14.0203.C5.o2.gp	Method	AAT/GAP



Start 7379 End 8226  
 GI LIB3432-015-P1-K1-D7 Score 843  
 Exons 7379..7427, 7497..7581, 7801..7928, 8014..8226  
 GI Descrip. '3080369/emb|CAA18626.1| 2.0e-37 (AL022580) putative protein  
 [Arabidopsis thaliana]'

Seq. No. 26989 Seq. ID OJ000113\_14.0203.C5  
 Gene No. 55952 Strand -  
 Start 17573 End 20649  
 Name OJ000113\_14.0203.C5.o2.tm Method TBLASTX:Maize  
 Start 5143 End 5305  
 GI none Score 81  
 Exons 5143..5277, 5144..5305, 5152..5301

Seq. No. 26989 Seq. ID OJ000113\_14.0203.C5  
 Gene No. 55952 Strand -  
 Start 17573 End 20649  
 Name OJ000113\_14.0203.C5.o1.tm Method TBLASTX:Maize  
 Start 7368 End 8150  
 GI none Score 81  
 Exons 7368..7427, 7370..7426, 7490..7585, 7491..7580, 7799..7873,  
 7800..7874, 7874..7930, 7887..7928, 7994..8113, 8002..8121,  
 8002..8106, 8007..8120, 8109..8150, 8111..8149

Seq. No. 26989 Seq. ID OJ000113\_14.0203.C5  
 Gene No. 55952 Strand -  
 Start 17573 End 20649  
 Name OJ000113\_14.0203.C5.o1.tc Method TBLASTX:Cress  
 Start 7836 End 8193  
 GI none Score 58  
 Exons 7836..7895, 8002..8193, 8013..8189

Seq. No. 26989 Seq. ID OJ000113\_14.0203.C5  
 Gene No. 55952 Strand -  
 Start 17573 End 20649  
 Name OJ000113\_14.0203.C5.o2.np Method AAT/NAP  
 Start 17465 End 20649  
 GI 5922620 Score 873  
 Exons 17465..17572, 19009..19124, 19161..19337, 19385..19547,  
 19632..19665, 20386..20410, 20456..20569, 20611..20649  
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the  
 predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514)  
 corresponds to a region of the predicted gene.; hypothetical  
 protein [Oryza sativa]

Seq. No. 26989 Seq. ID OJ000113\_14.0203.C5  
 Gene No. 55952 Strand -  
 Start 17573 End 20649  
 Name OJ000113\_14.0203.C5.o4.gs Method GENSCAN  
 Start 17573 End 17785  
 GI none Score .86  
 Exons 17573..17785

Seq. No. 26989 Seq. ID OJ000113\_14.0203.C5  
 Gene No. 55952 Strand -  
 Start 17573 End 20649

Name	OJ000113_14.0203.C5.o5.gs	Method	GENSCAN
Start	18124	End	20649
GI	none	Score	.92
Exons	18124..18265, 18319..18433, 19040..19124, 19911..20060, 20386..20410, 20456..20649		

Seq. No.	26990	Seq. ID	OJ000113_14.0203.C6
Gene No.	55953	Strand	+
Start	1	End	3083
Name	OJ000113_14.0203.C6.o1.np	Method	AAI/NAP
Start	1	End	2987
GI	4680203	Score	1912
Exons	1..1242, 1284..1385, 1539..1769, 2046..2987		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	26990	Seq. ID	OJ000113_14.0203.C6
Gene No.	55953	Strand	+
Start	1	End	3083
Name	OJ000113_14.0203.C6.o3.tw	Method	TBLASTX:Wheat
Start	32	End	583
GI	none	Score	215
Exons	32..430, 271..432, 478..573, 479..583		

Seq. No.	26990	Seq. ID	OJ000113_14.0203.C6
Gene No.	55953	Strand	+
Start	1	End	3083
Name	OJ000113_14.0203.C6.o1.ts	Method	TBLASTX:Soybean
Start	311	End	730
GI	none	Score	123
Exons	311..430, 313..432, 481..726, 482..730		

Seq. No.	26990	Seq. ID	OJ000113_14.0203.C6
Gene No.	55953	Strand	+
Start	1	End	3083
Name	OJ000113_14.0203.C6.o1.tc	Method	TBLASTX:Cress
Start	478	End	808
GI	none	Score	317
Exons	478..711, 479..808, 662..766, 733..807		

Seq. No.	26990	Seq. ID	OJ000113_14.0203.C6
Gene No.	55953	Strand	+
Start	1	End	3083
Name	OJ000113_14.0203.C6.o2.tw	Method	TBLASTX:Wheat
Start	596	End	1061
GI	none	Score	52
Exons	596..649, 604..639, 650..754, 661..747, 746..856, 755..871, 759..857, 763..858, 900..1061, 901..1056		

Seq. No.	26990	Seq. ID	OJ000113_14.0203.C6
Gene No.	55953	Strand	+
Start	1	End	3083
Name	OJ000113_14.0203.C6.o1.tm	Method	TBLASTX:Maize
Start	653	End	1095
GI	none	Score	217
Exons	653..886, 703..894, 901..1095		

Seq. No.	26990	Seq. ID	OJ000113_14.0203.C6
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Gene No. 55953  
 Start 1  
 Name OJ000113\_14.0203.C6.o2.ts  
 Start 930  
 GI none  
 Exons 930..1085, 931..1164

Strand +  
 End 3083  
 Method TBLASTX:Soybean  
 End 1164  
 Score 250

Seq. No. 26990  
 Gene No. 55953  
 Start 1  
 Name OJ000113\_14.0203.C6.o4.tw  
 Start 1281  
 GI none  
 Exons 1281..1532, 1331..1531, 1568..1651, 1569..1652

Seq. ID OJ000113\_14.0203.C6  
 Strand +  
 End 3083  
 Method TBLASTX:Wheat  
 End 1652  
 Score 185

Seq. No. 26990  
 Gene No. 55953  
 Start 1  
 Name OJ000113\_14.0203.C6.o3.tm  
 Start 1307  
 GI none  
 Exons 1307..1444, 1308..1454, 1461..1523

Seq. ID OJ000113\_14.0203.C6  
 Strand +  
 End 3083  
 Method TBLASTX:Maize  
 End 1523  
 Score 163

Seq. No. 26990  
 Gene No. 55953  
 Start 1  
 Name OJ000113\_14.0203.C6.o2.tm  
 Start 1560  
 GI none  
 Exons 1560..2045, 1577..1753, 1889..2038

Seq. ID OJ000113\_14.0203.C6  
 Strand +  
 End 3083  
 Method TBLASTX:Maize  
 End 2045  
 Score 300

Seq. No. 26990  
 Gene No. 55953  
 Start 1  
 Name OJ000113\_14.0203.C6.o1.gp  
 Start 1641  
 GI 5002953  
 Exons 1641..1772, 2031..2440, 2920..3083  
 GI Descrip. 4680203/gb|AAD27566.1|AF114171\_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. ID OJ000113\_14.0203.C6  
 Strand +  
 End 3083  
 Method AAT/GAP  
 End 3083  
 Score 1269

Seq. No. 26990  
 Gene No. 55953  
 Start 1  
 Name OJ000113\_14.0203.C6.o1.tw  
 Start 1656  
 GI none  
 Exons 1656..2198, 1700..2146, 2217..2378, 2234..2374, 2382..2573, 2417..2557, 2562..2609, 2613..2654, 2616..2654, 2678..2755, 2679..2783, 2784..2876

Seq. ID OJ000113\_14.0203.C6  
 Strand +  
 End 3083  
 Method TBLASTX:Wheat  
 End 2876  
 Score 486

Seq. No. 26990  
 Gene No. 55953  
 Start 1  
 Name OJ000113\_14.0203.C6.o2.tc  
 Start 1943  
 GI none

Seq. ID OJ000113\_14.0203.C6  
 Strand +  
 End 3083  
 Method TBLASTX:Cress  
 End 2369  
 Score 209

Exons 1943..2146, 1947..2198, 2217..2369, 2234..2356

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55954	Strand	+
Start	2136	End	6217
Name	OJ000113_14.0203.C7.o2.gs	Method	GENSCAN
Start	2136	End	6217
GI	none	Score	.66
Exons	2136..2265, 2354..3087, 3166..3627, 3709..4541, 4624..4794, 4961..5132, 5574..5612, 6152..6217		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55954	Strand	+
Start	2136	End	6217
Name	OJ000113_14.0203.C7.o1.gp	Method	AAT/GAP
Start	4950	End	5416
GI	LIB3431-001-P1-N1-B5	Score	639
Exons	4950..5132, 5238..5416		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55954	Strand	+
Start	2136	End	6217
Name	OJ000113_14.0203.C7.o2.gp	Method	AAT/GAP
Start	5006	End	5473
GI	LIB3431-001-P1-N1-B5	Score	645
Exons	5006..5132, 5238..5473		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55955	Strand	+
Start	7516	End	10342
Name	OJ000113_14.0203.C7.o3.gs	Method	GENSCAN
Start	7516	End	9798
GI	none	Score	.45
Exons	7516..9798		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55955	Strand	+
Start	7516	End	10342
Name	OJ000113_14.0203.C7.o1.np	Method	AAT/NAP
Start	7831	End	10342
GI	4467124	Score	1052
Exons	7831..9736, 10290..10342		
GI Descrip.	(AL035538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55956	Strand	-
Start	65	End	217
Name	OJ000113_14.0203.C7.o1.gs	Method	GENSCAN
Start	65	End	217
GI	none	Score	.86
Exons	65..217		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
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Gene No.	55957	Strand	
Start	8389	End	9717
Name	OJ000113_14.0203.C7.o1.tc	Method	TBLASTX:Cress
Start	8389	End	8730
GI	none	Score	205
Exons	8389..8730		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55957	Strand	
Start	8389	End	9717
Name	OJ000113_14.0203.C7.o1.ts	Method	TBLASTX:Soybean
Start	8481	End	9213
GI	none	Score	85
Exons	8481..8648, 8481..9008, 8482..9048, 9070..9213		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55957	Strand	
Start	8389	End	9717
Name	OJ000113_14.0203.C7.o1.tm	Method	TBLASTX:Maize
Start	8529	End	9159
GI	none	Score	227
Exons	8529..8783, 8530..8829, 8857..9159, 8902..8982		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55957	Strand	
Start	8389	End	9717
Name	OJ000113_14.0203.C7.o1.tw	Method	TBLASTX:Wheat
Start	8659	End	9084
GI	none	Score	282
Exons	8659..9084, 8668..8958		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55957	Strand	
Start	8389	End	9717
Name	OJ000113_14.0203.C7.o2.tc	Method	TBLASTX:Cress
Start	9070	End	9453
GI	none	Score	157
Exons	9070..9318, 9352..9453		

Seq. No.	26991	Seq. ID	OJ000113_14.0203.C7
Gene No.	55957	Strand	
Start	8389	End	9717
Name	OJ000113_14.0203.C7.o2.tm	Method	TBLASTX:Maize
Start	9268	End	9717
GI	none	Score	221
Exons	9268..9531, 9604..9717		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55958	Strand	+
Start	13209	End	17856
Name	OJ000113_14.0203.C8.o3.np	Method	AAT/NAP
Start	13193	End	17856
GI	2828294	Score	984
Exons	13193..13493, 14088..14239, 14371..14493, 15451..15652, 16051..16165, 16283..16458, 16516..17163, 17828..17856		
GI Descrip.	(AL021687) putative protein [Arabidopsis thaliana]		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55958	Strand	+
Start	13209	End	17856
Name	OJ000113_14.0203.C8.o4.gs	Method	GENSCAN
Start	13209	End	17253
GI	none	Score	.69
Exons	13209..13493, 14088..14185, 14374..14493, 14937..15138, 15542..15652, 16051..16165, 16283..17253		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55958	Strand	+
Start	13209	End	17856
Name	OJ000113_14.0203.C8.o5.gp	Method	AAT/GAP
Start	13221	End	14239
GI	uC-osflM202123h02b1	Score	787
Exons	13221..13493, 14088..14239		
GI Descrip.	'2828294/emb CAA16708.1  5.0e-43 (AL021687) putatative protein [Arabidopsis thaliana]'		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55958	Strand	+
Start	13209	End	17856
Name	OJ000113_14.0203.C8.o6.gp	Method	AAT/GAP
Start	16671	End	17126
GI	2431248	Score	878
Exons	16671..17126		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55959	Strand	-
Start	471	End	7450
Name	OJ000113_14.0203.C8.o1.gs	Method	GENSCAN
Start	471	End	7450
GI	none	Score	.51
Exons	471..791, 1180..1433, 1497..1866, 2134..2235, 2282..2389, 2482..2743, 2848..3146, 3227..3345, 3418..3520, 3559..3639, 3725..3861, 3937..4091, 4167..4240, 4725..5686, 5892..6630, 6736..6818, 6853..7114, 7247..7450		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55959	Strand	-
Start	471	End	7450
Name	OJ000113_14.0203.C8.o1.np	Method	AAT/NAP
Start	1483	End	6982
GI	5441880	Score	2743
Exons	1483..1692, 2165..2409, 2482..2743, 2848..3146, 3725..4058, 4167..4306, 4908..5234, 5493..5524, 5970..6982		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55959	Strand	-
Start	471	End	7450
Name	OJ000113_14.0203.C8.o1.gp	Method	AAT/GAP
Start	1804	End	4052
GI	LIB3433-020-P1-K1-A6	Score	761
Exons	1804..2189, 4010..4052		

GI Descrip. '5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55960	Strand	-
Start	9247	End	11224
Name	OJ000113_14.0203.C8.o2.gp	Method	AAT/GAP
Start	8466	End	9856
GI	none	Score	985
Exons	8466..8777, 9300..9360, 9551..9678, 9771..9856		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55960	Strand	-
Start	9247	End	11224
Name	OJ000113_14.0203.C8.o2.gs	Method	GENSCAN
Start	9247	End	11188
GI	none	Score	.95
Exons	9247..9360, 9551..9678, 9771..9945, 10434..10464, 10603..10916, 10994..11188		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55960	Strand	-
Start	9247	End	11224
Name	OJ000113_14.0203.C8.o3.gp	Method	AAT/GAP
Start	10638	End	11224
GI	none	Score	949
Exons	10638..10916, 10994..11224		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o2.tw	Method	TBLASTX:Wheat
Start	5742	End	6120
GI	none	Score	57
Exons	5742..5801, 5766..5894, 5779..5916, 5855..5917, 5941..6117, 5966..6118, 5971..6120		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o3.tm	Method	TBLASTX:Maize
Start	5836	End	6414
GI	none	Score	185
Exons	5836..5889, 5936..6235, 5947..6414, 6287..6409		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o1.ts	Method	TBLASTX:Soybean
Start	8706	End	10760
GI	none	Score	66
Exons	8706..8777, 8707..8799, 8707..8778, 9277..9354, 9301..9354, 9305..9361, 9575..9679, 9600..9680, 9749..9940, 9772..9948, 9772..9948, 10055..10156, 10056..10151, 10061..10156, 10434..10472, 10438..10488, 10485..10505, 10489..10506, 10600..10749, 10602..10760		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o3.tc	Method	TBLASTX:Cress
Start	8707	End	10111
GI	none	Score	100
Exons	8707..8772, 9587..9679, 9749..9940, 9772..9939, 10037..10111, 10047..10109		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o1.tm	Method	TBLASTX:Maize
Start	9615	End	11050
GI	none	Score	109
Exons	9615..9683, 9615..9656, 9617..9706, 9619..9720, 9775..9948, 9776..9946, 10038..10190, 10040..10156, 10433..10495, 10434..10505, 10434..10505, 10438..10506, 10439..10507, 10600..10761, 10600..10755, 10602..10796, 10829..10882, 10998..11048, 11000..11050		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o5.tc	Method	TBLASTX:Cress
Start	10437	End	10788
GI	none	Score	34
Exons	10437..10472, 10438..10479, 10482..10511, 10486..10518, 10603..10788, 10605..10757		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o3.gs	Method	GENSCAN
Start	11748	End	12902
GI	none	Score	.99
Exons	11748..12902		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o2.np	Method	AAT/NAP
Start	11823	End	14811
GI	3695389	Score	875
Exons	11823..12652, 14719..14811		
GI Descrip.	(AF096371) contains similarity to D-isomer specific 2-hydroxyacid dehydrogenases (Pfam: 2-Hacid_DH.hmm, score: 19.11) [Arabidopsis thaliana]		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o1.tw	Method	TBLASTX:Wheat
Start	11865	End	12170
GI	none	Score	269
Exons	11865..12170, 11866..12168		



Seq. No. 26992  
 Gene No. 55961  
 Start 11748  
 Name OJ000113\_14.0203.C8.o5.tm  
 Start 11877  
 GI none  
 Exons 11877..12032, 11878..12033

Seq. ID OJ000113\_14.0203.C8  
 Strand -  
 End 16119  
 Method TBLASTX:Maize  
 End 12033  
 Score 159

Seq. No. 26992  
 Gene No. 55961  
 Start 11748  
 Name OJ000113\_14.0203.C8.o4.ts  
 Start 11943  
 GI none  
 Exons 11943..12221, 11968..12114

Seq. ID OJ000113\_14.0203.C8  
 Strand -  
 End 16119  
 Method TBLASTX:Soybean  
 End 12221  
 Score 82

Seq. No. 26992  
 Gene No. 55961  
 Start 11748  
 Name OJ000113\_14.0203.C8.o1.tc  
 Start 11958  
 GI none  
 Exons 11958..12245, 11968..12174, 12228..12287, 12267..12329

Seq. ID OJ000113\_14.0203.C8  
 Strand -  
 End 16119  
 Method TBLASTX:Cress  
 End 12329  
 Score 95

Seq. No. 26992  
 Gene No. 55961  
 Start 11748  
 Name OJ000113\_14.0203.C8.o2.tm  
 Start 12090  
 GI none  
 Exons 12090..12152, 12159..12536, 12229..12516

Seq. ID OJ000113\_14.0203.C8  
 Strand -  
 End 16119  
 Method TBLASTX:Maize  
 End 12536  
 Score 186

Seq. No. 26992  
 Gene No. 55961  
 Start 11748  
 Name OJ000113\_14.0203.C8.o2.ts  
 Start 12270  
 GI none  
 Exons 12270..12650, 12271..12480, 12577..12636

Seq. ID OJ000113\_14.0203.C8  
 Strand -  
 End 16119  
 Method TBLASTX:Soybean  
 End 12650  
 Score 108

Seq. No. 26992  
 Gene No. 55961  
 Start 11748  
 Name OJ000113\_14.0203.C8.o4.tc  
 Start 12390  
 GI none  
 Exons 12390..12650, 12574..12636

Seq. ID OJ000113\_14.0203.C8  
 Strand -  
 End 16119  
 Method TBLASTX:Cress  
 End 12650  
 Score 83

Seq. No. 26992  
 Gene No. 55961  
 Start 11748  
 Name OJ000113\_14.0203.C8.o4.gp  
 Start 12580  
 GI 428623  
 Exons 12580..12945

Seq. ID OJ000113\_14.0203.C8  
 Strand -  
 End 16119  
 Method AAT/GAP  
 End 12945  
 Score 728

Seq. No. 26992

Seq. ID OJ000113\_14.0203.C8

Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o2.tc	Method	TBLASTX:Cress
Start	13272	End	15505
GI	none	Score	321
Exons	13272..13496, 13307..13492, 14079..14177, 14091..14186, 14414..14503, 14416..14502, 15448..15504, 15449..15505		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o3.ts	Method	TBLASTX:Soybean
Start	13272	End	14186
GI	none	Score	353
Exons	13272..13496, 13307..13495, 14064..14186, 14079..14180		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o4.tm	Method	TBLASTX:Maize
Start	14121	End	16119
GI	none	Score	107
Exons	14121..14201, 14124..14201, 14375..14503, 14375..14494, 14382..14495, 14404..14502, 15413..15652, 15445..15633, 15449..15685, 16048..16119, 16050..16118		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55961	Strand	-
Start	11748	End	16119
Name	OJ000113_14.0203.C8.o5.ts	Method	TBLASTX:Soybean
Start	14414	End	15586
GI	none	Score	134
Exons	14414..14503, 14416..14502, 15441..15572, 15448..15579, 15449..15586		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55962	Strand	-
Start	16048	End	16167
Name	OJ000113_14.0203.C8.o6.tc	Method	TBLASTX:Cress
Start	16048	End	16167
GI	none	Score	209
Exons	16048..16167, 16048..16164, 16050..16166		

Seq. No.	26992	Seq. ID	OJ000113_14.0203.C8
Gene No.	55963	Strand	-
Start	16307	End	17242
Name	OJ000113_14.0203.C8.o6.tm	Method	TBLASTX:Maize
Start	16307	End	17242
GI	none	Score	107
Exons	16307..16417, 16307..16399, 16408..16473, 16409..16528, 16463..16528, 16511..16555, 16559..16636, 16670..16723, 16674..16721, 16676..16723, 16744..16818, 16746..16817, 16806..16868, 16833..16868, 16833..16904, 16834..16884, 16834..16923, 16843..16884, 16878..17045, 16913..17155, 16913..17044, 16913..17095, 16937..17062, 16937..17044, 16952..17011, 17011..17067, 17017..17166, 17040..17171, 17094..17177, 17108..17242, 17144..17236		

Seq. No. 26993  
 Gene No. 55964  
 Start 212  
 Name OJ000113\_14.0203.C9.o1.gs  
 Start 212  
 GI none  
 Exons 212..276

Seq. ID OJ000113\_14.0203.C9  
 Strand +  
 End 276  
 Method GENSCAN  
 End 276  
 Score .67

Seq. No. 26994  
 Gene No. 55965  
 Start 1  
 Name OJ000113\_14.0203.C10.o1.np  
 Start 1  
 GI 6225938  
 Exons 1..292, 590..771, 1329..1367

Seq. ID OJ000113\_14.0203.C10  
 Strand +  
 End 4279  
 Method AAT/NAP  
 End 1367  
 Score 280

GI Descrip. RER1A PROTEIN (ATRER1A) gi|2865175|dbj|BAA24803| (AB010945)  
 AtRer1A [Arabidopsis thaliana] gi|4914434|emb|CAB43637.1|  
 (AL050351) AtRer1A [Arabidopsis thaliana]

Seq. No. 26994  
 Gene No. 55965  
 Start 1  
 Name OJ000113\_14.0203.C10.o1.gp  
 Start 586  
 GI 15354 2.R1084  
 Exons 586..771, 1329..1786

Seq. ID OJ000113\_14.0203.C10  
 Strand +  
 End 4279  
 Method AAT/GAP  
 End 1786  
 Score 1110

GI Descrip. '2865175/dbj|BAA24803| 1.0e-40 (AB010945) AtRer1A [Arabidopsis  
 thaliana] >gi\_4914434\_emb\_CAB43637.1\_ (AL050351) AtRer1A  
 [Arabidopsis thaliana]'

Seq. No. 26994  
 Gene No. 55965  
 Start 1  
 Name OJ000113\_14.0203.C10.o1.gs  
 Start 591  
 GI none  
 Exons 591..771, 1086..1162, 1329..1620, 2323..2433, 2700..2778,  
 2950..3021, 3115..3138, 3640..3822, 3937..4012, 4144..4279

Seq. ID OJ000113\_14.0203.C10  
 Strand +  
 End 4279  
 Method GENSCAN  
 End 4279  
 Score .81

Seq. No. 26994  
 Gene No. 55966  
 Start 4217  
 Name OJ000113\_14.0203.C10.o2.gp  
 Start 4217  
 GI 5004640  
 Exons 4217..4506

Seq. ID OJ000113\_14.0203.C10  
 Strand +  
 End 4506  
 Method AAT/GAP  
 End 4506  
 Score 536

Seq. No. 26994  
 Gene No. 55967  
 Start 5340  
 Name OJ000113\_14.0203.C10.o3.gp  
 Start 5163  
 GI 265 2.R1084  
 Exons 5163..5405, 5655..5733, 6130..6177, 6271..6294, 6761..6943,  
 7052..7127, 7227..7615

Seq. ID OJ000113\_14.0203.C10  
 Strand +  
 End 7615  
 Method AAT/GAP  
 End 7615  
 Score 1948

GI Descrip. '3420055 1.0e-79 (AC004680) cyclophilin [Arabidopsis thaliana]'

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55967	Strand	+
Start	5340	End	7615
Name	OJ000113_14.0203.C10.o2.gs	Method	GENSCAN
Start	5340	End	7365
GI	none	Score	.99
Exons	5340..5405, 5655..5733, 6130..6177, 6271..6294, 6761..6943, 7052..7127, 7227..7365		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55967	Strand	+
Start	5340	End	7615
Name	OJ000113_14.0203.C10.o2.np	Method	AAT/NAP
Start	5598	End	7362
GI	3420055	Score	682
Exons	5598..5733, 6130..6177, 6271..6294, 6761..6943, 7052..7127, 7227..7362		

GI Descrip. (AC004680) cyclophilin [Arabidopsis thaliana]

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55968	Strand	+
Start	8290	End	10461
Name	OJ000113_14.0203.C10.o3.gs	Method	GENSCAN
Start	8290	End	10461
GI	none	Score	.74
Exons	8290..8572, 8599..8696, 10369..10461		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55968	Strand	+
Start	8290	End	10461
Name	OJ000113_14.0203.C10.o3.np	Method	AAT/NAP
Start	8290	End	8631
GI	6728983	Score	365
Exons	8290..8550, 8578..8631		

GI Descrip. (AC018363) unknown protein [Arabidopsis thaliana]

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o3.tc	Method	TBLASTX:Cress
Start	579	End	771
GI	none	Score	309
Exons	579..770, 580..771		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o3.ts	Method	TBLASTX:Soybean
Start	579	End	771
GI	none	Score	287
Exons	579..770, 580..771, 586..771		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o4.tm	Method	TBLASTX:Maize

Start	580	End	1382
GI	none	Score	292
Exons	580..771, 585..770, 586..771, 1317..1382, 1325..1372		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o1.ts	Method	TBLASTX:Soybean
Start	2697	End	7367
GI	none	Score	83
Exons	2697..2792, 2972..3019, 2973..3020, 3111..3140, 3111..3137, 3636..3830, 3636..3824, 3668..3826, 3926..4000, 3930..4001, 4140..4235, 4144..4245, 4144..4272, 4145..4273, 5643..5735, 5654..5734, 5654..5737, 5655..5735, 6129..6176, 6253..6294, 6753..6944, 6757..6945, 6757..6945, 7039..7128, 7050..7127, 7204..7365, 7204..7359, 7226..7366, 7227..7367		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o2.tw	Method	TBLASTX:Wheat
Start	2739	End	7356
GI	none	Score	57
Exons	2739..2792, 2973..3017, 3114..3140, 3636..3830, 3668..3823, 3936..4001, 3936..3998, 4115..4297, 4144..4266, 6129..6173, 6270..6296, 6753..6860, 6757..6945, 6760..6936, 6900..6950, 7039..7128, 7050..7127, 7218..7349, 7228..7356		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o1.tc	Method	TBLASTX:Cress
Start	2973	End	7356
GI	none	Score	45
Exons	2973..3020, 3111..3140, 3636..3830, 3668..3823, 3926..4003, 3930..4004, 4115..4279, 4123..4218, 5694..5768, 6757..6945, 6760..6939, 6897..6950, 7039..7128, 7050..7127, 7227..7349, 7228..7356		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o2.tm	Method	TBLASTX:Maize
Start	3631	End	7398
GI	none	Score	77
Exons	3631..3735, 3631..3687, 3636..3830, 3671..3823, 3790..3831, 3926..4000, 3926..4000, 3928..4035, 3930..4001, 4140..4271, 4144..4272, 4145..4273, 6753..6944, 6757..6945, 6757..6942, 6900..6944, 7039..7128, 7050..7127, 7051..7128, 7204..7398, 7225..7386, 7227..7388		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o4.np	Method	AAT/NAP
Start	7698	End	12910
GI	2828293	Score	407

Exons 7698..7717, 9976..10081, 11667..11818, 11941..12159,  
12226..12578, 12758..12910

GI Descrip. (AL021687) putative protein [Arabidopsis thaliana]

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o4.gp	Method	AAT/GAP
Start	8167	End	8983
GI	1330_1.R1084	Score	1427
Exons	8167..8983		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-09 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o3.tm	Method	TBLASTX:Maize
Start	8286	End	8634
GI	none	Score	420
Exons	8286..8309, 8290..8541, 8385..8498, 8587..8634, 8592..8633		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o1.tw	Method	TBLASTX:Wheat
Start	8287	End	8541
GI	none	Score	438
Exons	8287..8541, 8385..8498		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o2.tc	Method	TBLASTX:Cress
Start	8287	End	8634
GI	none	Score	338
Exons	8287..8541, 8391..8483, 8587..8634, 8592..8633		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o2.ts	Method	TBLASTX:Soybean
Start	8289	End	8643
GI	none	Score	384
Exons	8289..8309, 8290..8541, 8388..8495, 8589..8642, 8590..8643		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o5.gp	Method	AAT/GAP
Start	10763	End	11144
GI	LIB3433-018-Q6-K6-A4	Score	728
Exons	10763..11144		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
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Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o4.gs	Method	GENSCAN
Start	11087	End	12734
GI	none	Score	.88
Exons	11087..11261, 11667..11818, 11941..12096, 12217..12495, 12618..12734		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o1.tm	Method	TBLASTX:Maize
Start	11089	End	12662
GI	none	Score	38
Exons	11089..11121, 11153..11275, 11175..11264, 11657..11815, 11658..11813, 11667..11819, 11669..11815, 11915..12097, 11920..12096, 12188..12310, 12212..12334, 12213..12323, 12214..12339, 12214..12336, 12372..12458, 12412..12534, 12431..12523, 12617..12661, 12618..12662, 12618..12662		

Seq. No.	26994	Seq. ID	OJ000113_14.0203.C10
Gene No.	55969	Strand	-
Start	7698	End	12910
Name	OJ000113_14.0203.C10.o4.tc	Method	TBLASTX:Cress
Start	12412	End	12749
GI	none	Score	66
Exons	12412..12519, 12437..12502, 12617..12733, 12618..12749		

Seq. No.	26995	Seq. ID	OJ000113_14.0203.C11
Gene No.	55970	Strand	+
Start	3	End	4205
Name	OJ000113_14.0203.C11.o1.gs	Method	GENSCAN
Start	3	End	4205
GI	none	Score	.9
Exons	3..173, 3987..4205		

Seq. No.	26995	Seq. ID	OJ000113_14.0203.C11
Gene No.	55971	Strand	-
Start	1	End	239
Name	OJ000113_14.0203.C11.o1.gp	Method	AAT/GAP
Start	1	End	239
GI	none	Score	458
Exons	1..239		

Seq. No.	26996	Seq. ID	OJ000113_14.0203.C12
Gene No.	55972	Strand	-
Start	1	End	1111
Name	OJ000113_14.0203.C12.o1.np	Method	AAT/NAP
Start	1	End	1111
GI	3695389	Score	761
Exons	1..719, 1072..1111		
GI Descrip.	(AF096371) contains similarity to D-isomer specific 2-hydroxyacid dehydrogenases (Pfam: 2-Hacid_DH.hmm, score: 19.11) [Arabidopsis thaliana]		

Seq. No.	26996	Seq. ID	OJ000113_14.0203.C12
Gene No.	55972	Strand	-

Start 1  
Name OJ000113\_14.0203.C12.o1.tw  
Start 2  
GI none  
Exons 2..166, 3..167

End 1111  
Method TBLASTX:Wheat  
End 167  
Score 157

Seq. No. 26996  
Gene No. 55972  
Start 1  
Name OJ000113\_14.0203.C12.o2.tc  
Start 2  
GI none  
Exons 2..241, 3..200, 224..250, 280..327, 287..328

Seq. ID OJ000113\_14.0203.C12  
Strand -  
End 1111  
Method TBLASTX:Cress  
End 328  
Score 108

Seq. No. 26996  
Gene No. 55972  
Start 1  
Name OJ000113\_14.0203.C12.o2.ts  
Start 5  
GI none  
Exons 5..217, 6..206

Seq. ID OJ000113\_14.0203.C12  
Strand -  
End 1111  
Method TBLASTX:Soybean  
End 217  
Score 94

Seq. No. 26996  
Gene No. 55972  
Start 1  
Name OJ000113\_14.0203.C12.o1.gs  
Start 39  
GI none  
Exons 39..238, 316..873

Seq. ID OJ000113\_14.0203.C12  
Strand -  
End 1111  
Method GENSCAN  
End 873  
Score .88

Seq. No. 26996  
Gene No. 55972  
Start 1  
Name OJ000113\_14.0203.C12.o1.tm  
Start 150  
GI none  
Exons 150..257, 452..256, 250..393, 254..394

Seq. ID OJ000113\_14.0203.C12  
Strand -  
End 1111  
Method TBLASTX:Maize  
End 394  
Score 143

Seq. No. 26996  
Gene No. 55972  
Start 1  
Name OJ000113\_14.0203.C12.o1.ts  
Start 265  
GI none  
Exons 265..651, 269..475, 572..643

Seq. ID OJ000113\_14.0203.C12  
Strand -  
End 1111  
Method TBLASTX:Soybean  
End 651  
Score 102

Seq. No. 26996  
Gene No. 55972  
Start 1  
Name OJ000113\_14.0203.C12.o1.tc  
Start 385  
GI none  
Exons 385..708, 578..643

Seq. ID OJ000113\_14.0203.C12  
Strand -  
End 1111  
Method TBLASTX:Cress  
End 708  
Score 68

Seq. No. 26997  
Gene No. 55973  
Start 652

Seq. ID OJ000113\_15.0210.C1  
Strand +  
End 4125



Name	OJ000113_15.0210.C1.o1.gp	Method	AAT/GAP
Start	652	End	1348
GI	uC-osroM202035b06b1	Score	557
Exons	652..931, 1323..1348		
GI Descrip.	'4335747/gb AAD17424  4.0e-24 (AC006284) putative A3 protein [Vigna unguiculata] (integral membrane protein) [Arabidopsis thaliana]'		

Seq. No.	26997	Seq. ID	OJ000113_15.0210.C1
Gene No.	55973	Strand	+
Start	652	End	4125
Name	OJ000113_15.0210.C1.o1.gs	Method	GENSCAN
Start	695	End	2517
GI	none	Score	.82
Exons	695..931, 1323..1467, 1592..1801, 2127..2248, 2476..2517		

Seq. No.	26997	Seq. ID	OJ000113_15.0210.C1
Gene No.	55973	Strand	+
Start	652	End	4125
Name	OJ000113_15.0210.C1.o1.np	Method	AAT/NAP
Start	734	End	4012
GI	4335748	Score	1079
Exons	734..931, 1329..1467, 1592..1743, 2099..2248, 2795..3169, 3863..4012		
GI Descrip.	(AC006284) putative integral membrane protein [Arabidopsis thaliana]		

Seq. No.	26997	Seq. ID	OJ000113_15.0210.C1
Gene No.	55973	Strand	+
Start	652	End	4125
Name	OJ000113_15.0210.C1.o2.gp	Method	AAT/GAP
Start	1659	End	3020
GI	uC-osflM202047e12b1	Score	916
Exons	1659..1766, 2012..2055, 2127..2248, 2795..3020		
GI Descrip.	'2498098/sp Q41706 A3_VIGUN 3.0e-34 A3 PROTEIN >gi_2129909_pir_S58310 gene A3 protein - cowpea >gi_938300_emb_CAA62086_ (X90487) unknown [Vigna unguiculata]'		

Seq. No.	26997	Seq. ID	OJ000113_15.0210.C1
Gene No.	55973	Strand	+
Start	652	End	4125
Name	OJ000113_15.0210.C1.o3.gs	Method	GENSCAN
Start	3749	End	4125
GI	none	Score	.96
Exons	3749..3824, 3863..4125		

Seq. No.	26997	Seq. ID	OJ000113_15.0210.C1
Gene No.	55974	Strand	-
Start	2705	End	3178
Name	OJ000113_15.0210.C1.o2.gs	Method	GENSCAN
Start	2705	End	3178
GI	none	Score	.99
Exons	2705..3178		

Seq. No.	26997	Seq. ID	OJ000113_15.0210.C1
Gene No.	55975	Strand	-
Start	3928	End	4329

Name OJ000113\_15.0210.C1.o3.gp  
 Start 3928  
 GI none  
 Exons 3928..4329

Method AAT/GAP  
 End 4329  
 Score 752

Seq. No. 26997  
 Gene No. 55976  
 Start 6371  
 Name OJ000113\_15.0210.C1.o3.tm  
 Start 671  
 GI none  
 Exons 671..886, 694..894, 901..927, 902..958

Seq. ID OJ000113\_15.0210.C1  
 Strand -  
 End 6791  
 Method TBLASTX:Maize  
 End 958  
 Score 284

Seq. No. 26997  
 Gene No. 55976  
 Start 6371  
 Name OJ000113\_15.0210.C1.o1.ts  
 Start 673  
 GI none  
 Exons 673..936, 683..931, 1302..1472, 1328..1471, 1578..1715, 1579..1758, 1589..1714, 1590..1730, 2192..2251, 2789..3112, 2794..3168, 3097..3174, 3857..4009

Seq. ID OJ000113\_15.0210.C1  
 Strand -  
 End 6791  
 Method TBLASTX:Soybean  
 End 4009  
 Score 285

Seq. No. 26997  
 Gene No. 55976  
 Start 6371  
 Name OJ000113\_15.0210.C1.o2.tc  
 Start 694  
 GI none  
 Exons 694..936, 695..934

Seq. ID OJ000113\_15.0210.C1  
 Strand -  
 End 6791  
 Method TBLASTX:Cress  
 End 936  
 Score 274

Seq. No. 26997  
 Gene No. 55976  
 Start 6371  
 Name OJ000113\_15.0210.C1.o3.tc  
 Start 1302  
 GI none  
 Exons 1302..1472, 1328..1471, 1579..1632, 1590..1631

Seq. ID OJ000113\_15.0210.C1  
 Strand -  
 End 6791  
 Method TBLASTX:Cress  
 End 1632  
 Score 192

Seq. No. 26997  
 Gene No. 55976  
 Start 6371  
 Name OJ000113\_15.0210.C1.o1.tm  
 Start 1326  
 GI none  
 Exons 1326..1472, 1331..1471, 1588..1731, 1590..1730, 1590..1742, 1591..1737

Seq. ID OJ000113\_15.0210.C1  
 Strand -  
 End 6791  
 Method TBLASTX:Maize  
 End 1742  
 Score 207

Seq. No. 26997  
 Gene No. 55976  
 Start 6371  
 Name OJ000113\_15.0210.C1.o2.tm  
 Start 2195  
 GI none  
 Exons 2195..2251, 2789..3049, 2794..3027

Seq. ID OJ000113\_15.0210.C1  
 Strand -  
 End 6791  
 Method TBLASTX:Maize  
 End 3049  
 Score 61

Seq. No. 26997 Seq. ID OJ000113\_15.0210.C1

Gene No.	55976	Strand	-
Start	6371	End	6791
Name	OJ000113_15.0210.C1.o1.tc	Method	TBLASTX:Cress
Start	2884	End	4009
GI	none	Score	286
Exons	2884..3126, 2885..3112, 3097..3174, 3857..4009		

Seq. No.	26997	Seq. ID	OJ000113_15.0210.C1
Gene No.	55976	Strand	-
Start	6371	End	6791
Name	OJ000113_15.0210.C1.o4.gp	Method	AAT/GAP
Start	6371	End	6791
GI	LIB3477-003-P1-K1-E9	Score	118
Exons	6371..6449, 6769..6791		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55977	Strand	+
Start	11821	End	14568
Name	OJ000113_15.0210.C2.o2.np	Method	AAT/NAP
Start	11782	End	14175
GI	4406756	Score	1361
Exons	11782..12018, 12133..12271, 12609..12754, 13100..13231, 13353..13727, 14026..14175		
GI Descrip.	(AC006836) unknown protein [Arabidopsis thaliana]		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55977	Strand	+
Start	11821	End	14568
Name	OJ000113_15.0210.C2.o3.gs	Method	GENSCAN
Start	11821	End	14334
GI	none	Score	.71
Exons	11821..12018, 12133..12275, 12577..12777, 12969..13012, 13122..13231, 13353..13727, 13968..14164, 14253..14334		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55977	Strand	+
Start	11821	End	14568
Name	OJ000113_15.0210.C2.o2.gp	Method	AAT/GAP
Start	13624	End	14568
GI	54434_1.R1084	Score	1195
Exons	13624..13727, 14026..14568		
GI Descrip.	'4406756/gb AAD20067  3.0e-16 (AC006836) putative integral membrane protein A3 [Arabidopsis thaliana]'		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55978	Strand	-
Start	1	End	2351
Name	OJ000113_15.0210.C2.o1.np	Method	AAT/NAP
Start	1	End	2277
GI	6498441	Score	348
Exons	1..143, 1159..2277		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55978	Strand	-
Start	1	End	2351
Name	OJ000113_15.0210.C2.ol.gs	Method	GENSCAN
Start	1591	End	2351
GI	none	Score	.44
Exons	1591..1835, 2239..2319, 2330..2351		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55979	Strand	-
Start	9069	End	9163
Name	OJ000113_15.0210.C2.ol.gp	Method	AAT/GAP
Start	9069	End	9163
GI	LIB3477-003-P1-K1-E9	Score	119
Exons	9069..9163		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.ol.tw	Method	TBLASTX:Wheat
Start	1296	End	1622
GI	none	Score	100
Exons	1296..1622, 1377..1613		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.ol.ts	Method	TBLASTX:Soybean
Start	11772	End	14180
GI	none	Score	311
Exons	11772..11858, 11773..12018, 12109..12273, 12111..12275, 12607..12711, 12608..12778, 13156..13233, 13178..13234, 13323..13658, 13352..13531, 13547..13729, 13583..13651, 13596..13736, 13995..14102, 14023..14178, 14023..14082, 14031..14180		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.ol.tm	Method	TBLASTX:Maize
Start	11776	End	12659
GI	none	Score	371
Exons	11776..12018, 11790..11861, 11916..11960, 11965..12018, 12109..12273, 12111..12275, 12595..12657, 12606..12659, 12608..12658		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.ol.tc	Method	TBLASTX:Cress
Start	11802	End	12649
GI	none	Score	258
Exons	11802..11858, 11803..11988, 11922..11957, 12109..12273,		

12109..12264, 12132..12275, 12608..12649

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.o4.tm	Method	TBLASTX:Maize
Start	13162	End	13607
GI	none	Score	69
Exons	13162..13242, 13169..13243, 13350..13607, -13352..13606		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.o2.tc	Method	TBLASTX:Cress
Start	13442	End	14223
GI	none	Score	302
Exons	13442..13657, 13443..13658, 13547..13699, 13593..13694, 14023..14223, 14031..14177		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.o4.gs	Method	GENSCAN
Start	14668	End	23171
GI	none	Score	46
Exons	14668..14692, 15142..15200, 16455..18201, 20640..20716, 20897..20979, 21300..21392, 21612..21726, 21783..21895, 22569..22627, 23043..23171		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.o3.np	Method	AAT/NAP
Start	16432	End	18152
GI	6939229	Score	1061
Exons	16432..18152		
GI Descrip.	(AC020579) putative heat shock protein [Arabidopsis thaliana]		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.o2.tm	Method	TBLASTX:Maize
Start	16574	End	17224
GI	none	Score	111
Exons	16574..16636, 16635..16664, 16688..16789, 16794..16850, 16799..17047, 16848..16952, 16862..16954, 16946..17020, 17024..17059, 17031..17063, 17115..17222, 17120..17185, 17120..17224, 17149..17220		

Seq. No.	26998	Seq. ID	OJ000113_15.0210.C2
Gene No.	55980	Strand	-
Start	14668	End	24126
Name	OJ000113_15.0210.C2.o3.tm	Method	TBLASTX:Maize
Start	17496	End	17763
GI	none	Score	118
Exons	17496..17672, 17581..17673, 17676..17762, 17677..17763		

Seq. No. 26998  
 Gene No. 55980  
 Start 14668  
 Name OJ000113\_15.0210.C2.o5.tm  
 Start 17974  
 GI none  
 Exons 17974..18129, 17976..18128

Seq. ID OJ000113\_15.0210.C2  
 Strand -  
 End 24126  
 Method TBLASTX:Maize  
 End 18129  
 Score 221

Seq. No. 26998  
 Gene No. 55980  
 Start 14668  
 Name OJ000113\_15.0210.C2.o4.np  
 Start 21187  
 GI 3242980  
 Exons 21187..21402, 21549..21672, 21817..21872, 22543..22627, 23043..23171, 23887..24126

Seq. ID OJ000113\_15.0210.C2  
 Strand -  
 End 24126  
 Method AAT/NAP  
 End 24126  
 Score 383

GI Descrip. (AF069985) nitrilase homolog 1 [Mus musculus]

Seq. No. 26998  
 Gene No. 55980  
 Start 14668  
 Name OJ000113\_15.0210.C2.o2.ts  
 Start 21316  
 GI none  
 Exons 21316..21387, 21316..21402, 21320..21403, 21546..21641, 21547..21657, 21774..21899, 21778..21900, 22550..22627, 22558..22626, 23042..23149, 23043..23147

Seq. ID OJ000113\_15.0210.C2  
 Strand -  
 End 24126  
 Method TBLASTX:Soybean  
 End 23149  
 Score 82

Seq. No. 26998  
 Gene No. 55980  
 Start 14668  
 Name OJ000113\_15.0210.C2.o6.tm  
 Start 21815  
 GI none  
 Exons 21815..21898, 21816..21890, 21816..21899, 21817..21897, 22550..22627, 22551..22625, 22558..22626, 23020..23181, 23042..23182, 23043..23183, 23854..24024, 23875..24024, 23886..24044, 23889..24026

Seq. ID OJ000113\_15.0210.C2  
 Strand -  
 End 24126  
 Method TBLASTX:Maize  
 End 24044  
 Score 100

Seq. No. 26998  
 Gene No. 55980  
 Start 14668  
 Name OJ000113\_15.0210.C2.o3.ts  
 Start 23875  
 GI none  
 Exons 23875..24024, 23886..24044

Seq. ID OJ000113\_15.0210.C2  
 Strand -  
 End 24126  
 Method TBLASTX:Soybean  
 End 24044  
 Score 126

Seq. No. 26999  
 Gene No. 55981  
 Start 1681  
 Name OJ000113\_15.0210.C3.o2.gs  
 Start 1681  
 GI none  
 Exons 1681..1852, 1992..2124, 2228..2335, 2854..2947, 3299..3448, 4215..4257

Seq. ID OJ000113\_15.0210.C3  
 Strand +  
 End 4307  
 Method GENSCAN  
 End 4257  
 Score .63

Seq. No. 26999 Seq. ID OJ000113\_15.0210.C3

Gene No. 55981 Strand +  
 Start 1681 End 4307  
 Name OJ000113\_15.0210.C3.o1.np Method AAT/NAP  
 Start 1985 End 4307  
 GI 4680206 Score 731  
 Exons 1985..2124, 2228..2335, 2854..2947, 3299..3455, 3494..3577,  
 4215..4307  
 GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No. 26999 Seq. ID OJ000113\_15.0210.C3  
 Gene No. 55982 Strand -  
 Start 586 End 882  
 Name OJ000113\_15.0210.C3.o1.gs Method GENSCAN  
 Start 586 End 882  
 GI none Score .81  
 Exons 586..882

Seq. No. 26999 Seq. ID OJ000113\_15.0210.C3  
 Gene No. 55983 Strand -  
 Start 1786 End 4298  
 Name OJ000113\_15.0210.C3.o1.tm Method TBLASTX:Maize  
 Start 1786 End 2324  
 GI none Score 51  
 Exons 1786..1866, 1790..1894, 1983..2117, 1995..2120, 2012..2122,  
 2223..2324, 2228..2323

Seq. No. 26999 Seq. ID OJ000113\_15.0210.C3  
 Gene No. 55983 Strand -  
 Start 1786 End 4298  
 Name OJ000113\_15.0210.C3.o1.ts Method TBLASTX:Soybean  
 Start 1979 End 2297  
 GI none Score 188  
 Exons 1979..2113, 1984..2124, 1985..2122, 2223..2297, 2225..2296

Seq. No. 26999 Seq. ID OJ000113\_15.0210.C3  
 Gene No. 55983 Strand -  
 Start 1786 End 4298  
 Name OJ000113\_15.0210.C3.o1.tc Method TBLASTX:Cress  
 Start 1985 End 4298  
 GI none Score 192  
 Exons 1985..2122, 2006..2116, 2011..2124, 2223..2345, 2225..2344,  
 2851..2946, 2852..2944, 3298..3432, 3299..3448, 3300..3458,  
 3532..3576, 3533..3577, 3534..3587, 4209..4298, 4214..4297

Seq. No. 26999 Seq. ID OJ000113\_15.0210.C3  
 Gene No. 55983 Strand -  
 Start 1786 End 4298  
 Name OJ000113\_15.0210.C3.o2.tm Method TBLASTX:Maize  
 Start 3296 End 4298  
 GI none Score 214  
 Exons 3296..3448, 3298..3450, 3313..3450, 3520..3576, 3521..3577,  
 3529..3582, 4209..4298, 4214..4297

Seq. No. 27000 Seq. ID OJ000113\_15.0210.C4  
 Gene No. 55984 Strand -  
 Start 38 End 142  
 Name OJ000113\_15.0210.C4.o1.gp Method AAT/GAP

Start	38	End	142
GI	LIB3477-003-P1-K1-E9	Score	138
Exons	38..142		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o2.tm	Method	TBLASTX:Maize
Start	254	End	707
GI	none	Score	74
Exons	254..313, 256..315, 409..543, 410..544, 411..548, 632..706, 633..707		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o1.gs	Method	GENSCAN
Start	256	End	4627
GI	none	Score	.82
Exons	256..312, 409..543, 878..911, 1011..1087, 1187..1262, 1456..1589, 2436..2542, 3169..3472, 3577..3888, 4562..4627		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o1.tc	Method	TBLASTX:Cress
Start	259	End	2528
GI	none	Score	69
Exons	259..315, 409..543, 410..490, 632..787, 636..782, 875..919, 1004..1087, 1010..1087, 1182..1262, 1184..1261, 1444..1626, 1455..1625, 2147..2245, 2147..2248, 2433..2528		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o1.np	Method	AAT/NAP
Start	262	End	3831
GI	5420276	Score	860
Exons	262..312, 409..543, 632..806, 1002..1087, 1187..1262, 1456..1589, 2150..2242, 2436..2537, 3167..3472, 3574..3831		
GI Descrip.	(AJ243452) cyclin A2 [Lycopersicon esculentum]		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o1.ts	Method	TBLASTX:Soybean
Start	289	End	2543
GI	none	Score	110
Exons	289..315, 409..543, 410..544, 410..544, 632..787, 633..758, 884..919, 1004..1087, 1005..1088, 1009..1089, 1010..1090, 1182..1262, 1184..1261, 1185..1262, 1438..1590, 1455..1592, 1461..1592, 2147..2221, 2147..2248, 2433..2543		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
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Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o1.tw	Method	TBLASTX:Wheat
Start	472	End	784
GI	none	Score	76
Exons	472..543, 473..544, 474..548, 624..779, 632..784		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o3.tm	Method	TBLASTX:Maize
Start	1010	End	3312
GI	none	Score	85
Exons	1010..1093, 1010..1093, 1180..1260, 1190..1261, 1191..1262, 1192..1263, 1438..1590, 1455..1592, 1455..1592, 2143..2250, 2147..2257, 2148..2249, 2433..2543, 2434..2544, 3132..3311, 3167..3307, 3178..3312		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o2.np	Method	AAT/NAP
Start	1416	End	3831
GI	5420276	Score	379
Exons	1416..1589, 2150..2242, 2436..2537, 3167..3472, 3574..3831		
GI Descrip.	(AJ243452) cyclin A2 [Lycopersicon esculentum]		

Seq. No.	27001	Seq. ID	OJ000113_15.0210.C5
Gene No.	55985	Strand	-
Start	256	End	4627
Name	OJ000113_15.0210.C5.o1.tm	Method	TBLASTX:Maize
Start	3357	End	3891
GI	none	Score	65
Exons	3357..3434, 3564..3881, 3577..3666, 3577..3891, 3599..3871, 3771..3890		

Seq. No.	27002	Seq. ID	OJ000113_15.0210.C6
Gene No.	55986	Strand	+
Start	276	End	340
Name	OJ000113_15.0210.C6.o1.gs	Method	GENSCAN
Start	276	End	340
GI	none	Score	.88
Exons	276..340		

Seq. No.	27003	Seq. ID	OJ000113_15.0210.C7
Gene No.	55987	Strand	-
Start	1	End	654
Name	OJ000113_15.0210.C7.o1.np	Method	AAT/NAP
Start	1	End	654
GI	4680205	Score	252
Exons	1..245, 344..419, 559..654		
GI Descrip.	(AF114171) H beta' 58 homolog [Sorghum bicolor]		

Seq. No.	27003	Seq. ID	OJ000113_15.0210.C7
Gene No.	55987	Strand	-
Start	1	End	654
Name	OJ000113_15.0210.C7.o1.tc	Method	TBLASTX:Cress

Start	43	End	411
GI	none	Score	124
Exons	43..183, 72..194, 75..224, 185..229, 186..230, 345..404, 346..411		

Seq. No.	27003	Seq. ID	OJ000113_15.0210.C7
Gene No.	55987	Strand	-
Start	1	End	654
Name	OJ000113_15.0210.C7.o1.tm	Method	TBLASTX:Maize
Start	43	End	411
GI	none	Score	156
Exons	43..183, 72..224, 72..194, 185..229, 185..229, 186..230, 345..404, 346..411		

Seq. No.	27003	Seq. ID	OJ000113_15.0210.C7
Gene No.	55987	Strand	-
Start	1	End	654
Name	OJ000113_15.0210.C7.o1.gp	Method	AAT/GAP
Start	70	End	230
GI	LIB3433-040-P1-K1-A12	Score	266
Exons	70..230		
GI Descrip.	'4521193/dbj AB013450.1 AB013450.1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	27003	Seq. ID	OJ000113_15.0210.C7
Gene No.	55987	Strand	-
Start	1	End	654
Name	OJ000113_15.0210.C7.o1.ts	Method	TBLASTX:Soybean
Start	71	End	411
GI	none	Score	67
Exons	71..130, 72..194, 73..183, 185..229, 185..229, 345..404, 346..411		

Seq. No.	27003	Seq. ID	OJ000113_15.0210.C7
Gene No.	55987	Strand	-
Start	1	End	654
Name	OJ000113_15.0210.C7.o1.gs	Method	GENSCAN
Start	74	End	182
GI	none	Score	.69
Exons	74..182		

Seq. No.	27004	Seq. ID	OJ000113_15.0210.C9
Gene No.	55988	Strand	+
Start	596	End	612
Name	OJ000113_15.0210.C9.o1.gs	Method	GENSCAN
Start	596	End	612
GI	none	Score	.44
Exons	596..612		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55989	Strand	+
Start	6488	End	9861
Name	OJ000113_15.0210.C12.o2.gs	Method	GENSCAN
Start	6488	End	9861
GI	none	Score	.91
Exons	6488..6810, 8489..8501, 9478..9634, 9728..9861		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55990	Strand	+
Start	13109	End	13847
Name	OJ000113_15.0210.C12.o2.np	Method	AAT/NAP
Start	13109	End	13847
GI	6730644	Score	286
Exons	13109..13327, 13770..13847		
GI Descrip.	(AC008262) F4N2.18 [Arabidopsis thaliana]		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55991	Strand	+
Start	20882	End	22544
Name	OJ000113_15.0210.C12.o4.np	Method	AAT/NAP
Start	20882	End	22544
GI	4218175	Score	204
Exons	20882..21060, 22454..22544		
GI Descrip.	(AJ009727) MADS-box protein, GSQUAL [Gerbera hybrida]		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55992	Strand	-
Start	3470	End	5023
Name	OJ000113_15.0210.C12.o1.gs	Method	GENSCAN
Start	3470	End	5023
GI	none	Score	.9
Exons	3470..3961, 4561..4667, 4915..5023		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55992	Strand	-
Start	3470	End	5023
Name	OJ000113_15.0210.C12.o1.np	Method	AAT/NAP
Start	3473	End	5023
GI	1084415	Score	386
Exons	3473..3508, 3542..3961, 4561..4667, 4747..4815, 4915..5023		
GI Descrip.	RNA-binding protein - Wood tobacco gi 624925 dbj BAA05170  (D26182) RNA-binding glycine rich protein (RGP-2) [Nicotiana sylvestris]		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55993	Strand	-
Start	16215	End	22798
Name	OJ000113_15.0210.C12.o2.tm	Method	TBLASTX:Maize
Start	3371	End	5033
GI	none	Score	.74
Exons	3371..3397, 3464..3541, 3548..3715, 3626..3685, 3903..3959, 4555..4668, 4560..4673, 4562..4669, 4733..4816, 4745..4831, 4749..4817, 4910..5029, 4914..5033, 4914..5033		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55993	Strand	-
Start	16215	End	22798
Name	OJ000113_15.0210.C12.o2.ts	Method	TBLASTX:Soybean
Start	4556	End	5029
GI	none	Score	.97
Exons	4556..4648, 4559..4666, 4561..4665, 4743..4817, 4748..4816, 4910..5029, 4914..4952, 4988..5029		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
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Gene No.	55993	Strand	-
Start	16215	End	22798
Name	OJ000113_15.0210.C12.o1.tm	Method	TBLASTX:Maize
Start	6592	End	9887
GI	none	Score	174
Exons	6592..6720, 6593..6724, 9473..9643, 9475..9531, 9478..9684, 9479..9640, 9606..9641, 9722..9868, 9723..9887, 9724..9861		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55993	Strand	-
Start	16215	End	22798
Name	OJ000113_15.0210.C12.o1.tw	Method	TBLASTX:Wheat
Start	6593	End	9837
GI	none	Score	165
Exons	6593..6724, 6595..6717, 9475..9537, 9476..9634, 9476..9634, 9722..9796, 9723..9800, 9724..9801, 9798..9836, 9799..9837		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55993	Strand	-
Start	16215	End	22798
Name	OJ000113_15.0210.C12.o3.tm	Method	TBLASTX:Maize
Start	13062	End	14018
GI	none	Score	226
Exons	13062..13328, 13172..13327, 13244..13333, 13761..13886, 13768..13893, 13768..13884, 13770..13892, 13955..14005, 13977..14018, 13977..14018		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55993	Strand	-
Start	16215	End	22798
Name	OJ000113_15.0210.C12.o3.np	Method	AAT/NAP
Start	16192	End	16769
GI	5091603	Score	739
Exons	16192..16497, 16564..16769		
GI Descrip.	(AC007858) 10A19I.7 [Oryza sativa]		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55993	Strand	-
Start	16215	End	22798
Name	OJ000113_15.0210.C12.o4.gs	Method	GENSCAN
Start	16215	End	22784
GI	none	Score	.49
Exons	16215..16497, 16508..16707, 16726..16908, 17823..17917, 20649..20705, 20941..21092, 21780..21915, 22181..22381, 22730..22784		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55993	Strand	-
Start	16215	End	22798
Name	OJ000113_15.0210.C12.o2.tw	Method	TBLASTX:Wheat
Start	20896	End	21058
GI	none	Score	186
Exons	20896..21039, 20897..21058		

Seq. No.	27005	Seq. ID	OJ000113_15.0210.C12
Gene No.	55993	Strand	-
Start	16215	End	22798

Name OJ000113\_15.0210.C12.o4.tm  
Start 20896  
GI none  
Exons 20896..21036, 20897..21058

Method TBLASTX:Maize  
End 21058  
Score 208

Seq. No. 27005  
Gene No. 55993  
Start 16215  
Name OJ000113\_15.0210.C12.o1.tc  
Start 20897  
GI none  
Exons 20897..21058, 20911..21045

Seq. ID OJ000113\_15.0210.C12  
Strand -  
End 22798  
Method TBLASTX:Cress  
End 21058  
Score 207

Seq. No. 27005  
Gene No. 55993  
Start 16215  
Name OJ000113\_15.0210.C12.o1.ts  
Start 20897  
GI none  
Exons 20897..21058, 20911..21045

Seq. ID OJ000113\_15.0210.C12  
Strand -  
End 22798  
Method TBLASTX:Soybean  
End 21058  
Score 207

Seq. No. 27005  
Gene No. 55993  
Start 16215  
Name OJ000113\_15.0210.C12.o5.np  
Start 21726  
GI 6063557  
Exons 21726..21888, 22137..22360, 22781..22798  
GI Descrip. (AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]

Seq. ID OJ000113\_15.0210.C12  
Strand -  
End 22798  
Method AAT/NAP  
End 22798  
Score 394

Seq. No. 27006  
Gene No. 55994  
Start 30  
Name OJ000113\_15.0210.C13.o1.gs  
Start 30  
GI none  
Exons 30..399, 762..825, 2901..2985, 3130..3194, 3956..4055, 5812..5832, 6287..6325, 6685..6843

Seq. ID OJ000113\_15.0210.C13  
Strand +  
End 6843  
Method GENSCAN  
End 6843  
Score .54

Seq. No. 27006  
Gene No. 55994  
Start 30  
Name OJ000113\_15.0210.C13.o1.np  
Start 783  
GI 6467974  
Exons 783..825, 2868..2984, 3135..3194, 3956..4098, 6287..6332, 6535..6569

Seq. ID OJ000113\_15.0210.C13  
Strand +  
End 6843  
Method AAT/NAP  
End 6569  
Score 94

GI Descrip. (AF198175) MADS box protein DOMADS2 [Dendrobium grex Madame Thong-IN]

Seq. No. 27007  
Gene No. 55995  
Start 529  
Name OJ000113\_15.0210.C14.o1.gs  
Start 529  
GI none  
Exons 529..708

Seq. ID OJ000113\_15.0210.C14  
Strand +  
End 708  
Method GENSCAN  
End 708  
Score .46

Seq. No.	27008	Seq. ID	OJ000113_15.0210.C15
Gene No.	55996	Strand	-
Start	747	End	857
Name	OJ000113_15.0210.C15.o1.gs	Method	GENSCAN
Start	747	End	857
GI	none	Score	.83
Exons	747..857		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	55997	Strand	+
Start	24	End	260
Name	OJ000113_15.0210.C16.o1.np	Method	AAT/NAP
Start	24	End	260
GI	6721543	Score	63
Exons	24..260		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	55998	Strand	+
Start	273	End	2252
Name	OJ000113_15.0210.C16.o2.np	Method	AAT/NAP
Start	273	End	2252
GI	5441880	Score	1661
Exons	273..1233, 2222..2252		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	55998	Strand	+
Start	273	End	2252
Name	OJ000113_15.0210.C16.o1.gp	Method	AAT/GAP
Start	877	End	1234
GI	5701669	Score	679
Exons	877..1234		
GI Descrip.	5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	55999	Strand	+
Start	2306	End	2759
Name	OJ000113_15.0210.C16.o2.gp	Method	AAT/GAP
Start	2306	End	2759
GI	LIB3431-045-P1-N1-A10	Score	864
Exons	2306..2759		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	56000	Strand	+
Start	6150	End	9672
Name	OJ000113_15.0210.C16.o4.np	Method	AAT/NAP
Start	6034	End	9669
GI	6730651	Score	285
Exons	6034..6158, 6312..6502, 6881..6944, 9379..9669		

GI Descrip. (AC008262) F4N2.5 [Arabidopsis thaliana]

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	56000	Strand	+
Start	6150	End	9672
Name	OJ000113_15.0210.C16.o3.gs	Method	GENSCAN
Start	6150	End	9672
GI	none	Score	.63
Exons	6150..6462, 6874..6944, 9379..9672		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	56001	Strand	-
Start	2702	End	3121
Name	OJ000113_15.0210.C16.o3.gp	Method	AAT/GAP
Start	2702	End	3107
GI	7406_1.R1084	Score	660
Exons	2702..3107		

GI Descrip. '1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	56001	Strand	-
Start	2702	End	3121
Name	OJ000113_15.0210.C16.o3.np	Method	AAT/NAP
Start	2993	End	3121
GI	6721543	Score	91
Exons	2993..3121		

GI Descrip. (AP001073) hypothetical protein [Oryza sativa]

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	56002	Strand	-
Start	4077	End	4762
Name	OJ000113_15.0210.C16.o2.gs	Method	GENSCAN
Start	4077	End	4762
GI	none	Score	.47
Exons	4077..4283, 4332..4441, 4753..4762		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	56003	Strand	-
Start	10658	End	12065
Name	OJ000113_15.0210.C16.o1.tm	Method	TBLASTX:Maize
Start	834	End	1232
GI	none	Score	87
Exons	834..962, 842..940, 996..1232, 1013..1219		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	56003	Strand	-
Start	10658	End	12065
Name	OJ000113_15.0210.C16.o1.ts	Method	TBLASTX:Soybean
Start	9397	End	9672
GI	none	Score	167
Exons	9397..9516, 9402..9515, 9555..9668, 9556..9672		

Seq. No.	27009	Seq. ID	OJ000113_15.0210.C16
Gene No.	56003	Strand	-
Start	10658	End	12065
Name	OJ000113_15.0210.C16.o4.gs	Method	GENSCAN

Start	10658	End	12065
GI	none	Score	.82
Exons	10658..10795, 11150..11364, 11563..11857, 11931..12065		

  

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56004	Strand	+
Start	1	End	94
Name	OJ000113_15.0210.C17.ol.gp	Method	AAT/GAP
Start	1	End	94
GI	7406_1.R1084	Score	143
Exons	1..94		
GI Descrip.	'1122315/emb CAA63901  7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56005	Strand	+
Start	547	End	4666
Name	OJ000113_15.0210.C17.ol.gs	Method	GENSCAN
Start	547	End	4388
GI	none	Score	.47
Exons	547..1468, 1651..1821, 1903..2268, 2448..2759, 2975..3172, 3612..3759, 3823..3870, 3875..4077, 4228..4388		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56005	Strand	+
Start	547	End	4666
Name	OJ000113_15.0210.C17.ol.np	Method	AAT/NAP
Start	1000	End	3759
GI	5441880	Score	2343
Exons	1000..2004, 2448..2479, 2738..3052, 3612..3759		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56005	Strand	+
Start	547	End	4666
Name	OJ000113_15.0210.C17.o2.gp	Method	AAT/GAP
Start	1603	End	2034
GI	5701669	Score	849
Exons	1603..2034		
GI Descrip.	5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56005	Strand	+
Start	547	End	4666
Name	OJ000113_15.0210.C17.o3.gp	Method	AAT/GAP
Start	4213	End	4666
GI	LIB3431-045-P1-N1-A10	Score	860
Exons	4213..4666		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56006	Strand	+



Start	8200	End	11147
Name	OJ000113_15.0210.C17.o3.np	Method	AAT/NAP
Start	8163	End	11147
GI	6498423	Score	233
Exons	8163..8526, 8662..8906, 10932..11147		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56006	Strand	+
Start	8200	End	11147
Name	OJ000113_15.0210.C17.o3.gs	Method	GENSCAN
Start	8200	End	8671
GI	none	Score	.72
Exons	8200..8327, 8353..8671		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56007	Strand	-
Start	4021	End	4992
Name	OJ000113_15.0210.C17.o2.np	Method	AAT/NAP
Start	4021	End	4992
GI	6721543	Score	102
Exons	4021..4138, 4864..4992		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56008	Strand	-
Start	5365	End	7450
Name	OJ000113_15.0210.C17.o2.gs	Method	GENSCAN
Start	5365	End	7450
GI	none	Score	.86
Exons	5365..6548, 6614..6959, 7391..7450		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56009	Strand	-
Start	10943	End	11431
Name	OJ000113_15.0210.C17.o1.tm	Method	TBLASTX:Maize
Start	1722	End	2156
GI	none	Score	272
Exons	1722..2021, 1739..1960, 2085..2156		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56009	Strand	-
Start	10943	End	11431
Name	OJ000113_15.0210.C17.o1.tw	Method	TBLASTX:Wheat
Start	1854	End	2234
GI	none	Score	208
Exons	1854..2048, 1863..2060, 2054..2173, 2058..2234, 2058..2204		

Seq. No.	27010	Seq. ID	OJ000113_15.0210.C17
Gene No.	56009	Strand	-
Start	10943	End	11431
Name	OJ000113_15.0210.C17.o4.gs	Method	GENSCAN
Start	10943	End	11431
GI	none	Score	.99
Exons	10943..11431		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
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Gene No.	56010	Strand	+
Start	1	End	9037
Name	OJ000113_15.0210.C18.o1.np	Method	AAT/NAP
Start	1	End	1523
GI	6967112	Score	372
Exons	1..33, 663..1523		
GI Descrip.	(AL138652) putative protein [Arabidopsis thaliana]		
Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56010	Strand	+
Start	1	End	9037
Name	OJ000113_15.0210.C18.o1.gs	Method	GENSCAN
Start	406	End	7406
GI	none	Score	.56
Exons	406..729, 816..1131, 1201..1416, 1617..1759, 1912..1984, 2071..2235, 2407..2615, 3178..3300, 3817..4445, 4457..4612, 5352..5389, 5457..5734, 6009..6160, 6204..6310, 7003..7406		
Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56010	Strand	+
Start	1	End	9037
Name	OJ000113_15.0210.C18.o1.gp	Method	AAT/GAP
Start	5355	End	5866
GI	uC-osflm202052c07b1	Score	943
Exons	5355..5866		
GI Descrip.	'4234848 1.0e-12 (AF082131) gag-pol polyprotein [Zea mays]'		
Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56010	Strand	+
Start	1	End	9037
Name	OJ000113_15.0210.C18.o2.np	Method	AAT/NAP
Start	5465	End	9037
GI	4234852	Score	2470
Exons	5465..5605, 5648..9037		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		
Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56010	Strand	+
Start	1	End	9037
Name	OJ000113_15.0210.C18.o2.gp	Method	AAT/GAP
Start	6153	End	6670
GI	uC-osflcyp006a10b1	Score	704
Exons	6153..6310, 6419..6670		
GI Descrip.	'4234846 7.0e-13 (AF082130) gag-pol polyprotein [Zea mays]'		
Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56011	Strand	-
Start	8997	End	9572
Name	OJ000113_15.0210.C18.o2.gs	Method	GENSCAN
Start	8997	End	9572
GI	none	Score	.96
Exons	8997..9157, 9261..9392, 9398..9572		
Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o1.tm	Method	TBLASTX:Maize

Start	258	End	1007
GI	none	Score	113
Exons	258..299, 308..565, 332..634, 333..605, 333..668, 334..729, 358..714, 797..1006, 798..1007		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o1.ts	Method	TBLASTX:Soybean
Start	700	End	1187
GI	none	Score	49
Exons	700..729, 798..1004, 993..1187, 1014..1178		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o2.tw	Method	TBLASTX:Wheat
Start	866	End	1274
GI	none	Score	430
Exons	866..1126, 879..1274		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o5.tm	Method	TBLASTX:Maize
Start	1013	End	1196
GI	none	Score	81
Exons	1013..1153, 1014..1196, 1015..1086, 1016..1144		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o4.tm	Method	TBLASTX:Maize
Start	1200	End	1552
GI	none	Score	177
Exons	1200..1343, 1202..1345, 1212..1373, 1377..1523, 1379..1552, 1380..1529		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o2.tm	Method	TBLASTX:Maize
Start	5561	End	6497
GI	none	Score	281
Exons	5561..5944, 5680..5940, 5952..6173, 5955..6137, 6211..6309, 6414..6497, 6416..6496		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o2.ts	Method	TBLASTX:Soybean
Start	7524	End	7945
GI	5509260	Score	171
Exons	7524..7733, 7531..7557, 7613..7729, 7730..7945, 7735..7884		
GI Descrip.	-		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
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Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o6.tm	Method	TBLASTX:Maize
Start	7524	End	7831
GI	none	Score	184
Exons	7524..7733, 7574..7726, 7730..7831		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o2.tc	Method	TBLASTX:Cress
Start	7608	End	7870
GI	none	Score	145
Exons	7608..7733, 7613..7732, 7730..7870		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o1.tw	Method	TBLASTX:Wheat
Start	7652	End	8431
GI	none	Score	91
Exons	7652..7732, 7653..7733, 7653..7733, 7730..7945, 7751..7933, 7804..7953, 7917..8006, 7941..8036, 7984..8178, 8068..8169, 8178..8336, 8180..8341, 8357..8431		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o7.tm	Method	TBLASTX:Maize
Start	8232	End	8521
GI	none	Score	81
Exons	8232..8336, 8348..8521, 8371..8511		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o5.ts	Method	TBLASTX:Soybean
Start	8417	End	8977
GI	none	Score	78
Exons	8417..8569, 8611..8775, 8792..8977		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o4.tw	Method	TBLASTX:Wheat
Start	8586	End	8986
GI	none	Score	155
Exons	8586..8762, 8590..8763, 8771..8986		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o3.gs	Method	GENSCAN
Start	10605	End	11766
GI	none	Score	.61
Exons	10605..10746, 10788..10914, 11658..11766		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o3.gp	Method	AAT/GAP
Start	10638	End	11793
GI	LIB3433-040-P1-K1-A12	Score	806
Exons	10638..10914, 11658..11793		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o3.tm	Method	TBLASTX:Maize
Start	10721	End	11754
GI	none	Score	47
Exons	10721..10915, 10722..10769, 10722..10916, 10736..10915, 10851..10916, 11627..11752, 11656..11754		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o3.tw	Method	TBLASTX:Wheat
Start	10727	End	11744
GI	none	Score	161
Exons	10727..10915, 10736..10915, 11627..11743, 11656..11742, 11658..11744		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o3.np	Method	AAT/NAP
Start	10733	End	11793
GI	4469020	Score	430
Exons	10733..10914, 11658..11793		
GI Descrip.	(AL035602) putative protein (fragment) [Arabidopsis thaliana]		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o1.tc	Method	TBLASTX:Cress
Start	10745	End	11793
GI	none	Score	87
Exons	10745..10915, 10745..10915, 11655..11714, 11656..11793, 11657..11791		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793
Name	OJ000113_15.0210.C18.o3.ts	Method	TBLASTX:Soybean
Start	10745	End	10922
GI	none	Score	83
Exons	10745..10891, 10745..10921, 10851..10922		

Seq. No.	27011	Seq. ID	OJ000113_15.0210.C18
Gene No.	56012	Strand	-
Start	10605	End	11793

Name OJ000113\_15.0210.C18.o4.ts Method TBLASTX:Soybean  
 Start 11655 End 11793  
 GI none Score 67  
 Exons 11655..11714, 11656..11793, 11657..11788

Seq. No. 27012 Seq. ID OJ000113\_15.0210.C19  
 Gene No. 56013 Strand -  
 Start 247 End 291  
 Name OJ000113\_15.0210.C19.o1.gs Method GENSCAN  
 Start 247 End 291  
 GI none Score .75  
 Exons 247..291

Seq. No. 27013 Seq. ID OJ000113\_15.0210.C21  
 Gene No. 56014 Strand -  
 Start 1 End 155  
 Name OJ000113\_15.0210.C21.o1.np Method AAT/NAP  
 Start 1 End 155  
 GI 4680205 Score 52  
 Exons 1..155  
 GI Descrip. (AF114171) H beta 58 homolog [Sorghum bicolor]

Seq. No. 27014 Seq. ID OJ000113\_19.0218.C1  
 Gene No. 56015 Strand +  
 Start 1 End 1997  
 Name OJ000113\_19.0218.C1.o1.np Method AAT/NAP  
 Start 1 End 475  
 GI 417154 Score 765  
 Exons 1..475  
 GI Descrip. HEAT SHOCK PROTEIN 82 gi|100685|pir||S25541 heat shock protein  
 82 - rice (strain Taichung Native One) gi|20256|emb|CAA77978|  
 (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]

Seq. No. 27014 Seq. ID OJ000113\_19.0218.C1  
 Gene No. 56015 Strand +  
 Start 1 End 1997  
 Name OJ000113\_19.0218.C1.o1.gs Method GENSCAN  
 Start 125 End 1997  
 GI none Score .44  
 Exons 125..469, 1305..1416, 1507..1997

Seq. No. 27014 Seq. ID OJ000113\_19.0218.C1  
 Gene No. 56015 Strand +  
 Start 1 End 1997  
 Name OJ000113\_19.0218.C1.o2.gp Method AAT/GAP  
 Start 1612 End 1962  
 GI 1632690 Score 653  
 Exons 1612..1962

Seq. No. 27014 Seq. ID OJ000113\_19.0218.C1  
 Gene No. 56016 Strand +  
 Start 2277 End 2867  
 Name OJ000113\_19.0218.C1.o3.gp Method AAT/GAP  
 Start 2277 End 2867  
 GI 57046\_1.R1084 Score 1096  
 Exons 2277..2867  
 GI Descrip. '2541876/dbj|BAA22813| 1.0e-26 (D26015) CND41, chloroplast

nucleoid DNA binding protein [Nicotiana tabacum]

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56017	Strand	+
Start	2876	End	3263
Name	OJ000113_19.0218.C1.o4.gp	Method	AAT/GAP
Start	2876	End	3263
GI	50321 1.R1084	Score	742
Exons	2876..3263		
GI Descrip.	'2541876/dbj BAA22813  1.0e-08 (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]'		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56018	Strand	+
Start	6675	End	9046
Name	OJ000113_19.0218.C1.o3.gs	Method	GENSCAN
Start	6675	End	9046
GI	none	Score	.54
Exons	6675..6746, 7994..8218, 8618..9046		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56018	Strand	+
Start	6675	End	9046
Name	OJ000113_19.0218.C1.o6.gp	Method	AAT/GAP
Start	7977	End	9046
GI	438 2.R1084	Score	1085
Exons	7977..8218, 8618..9046		
GI Descrip.	'5123910/emb CAA67191.1  8.0e-15 (X98582) HSP80-2 [Triticum aestivum]'		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56018	Strand	+
Start	6675	End	9046
Name	OJ000113_19.0218.C1.o3.np	Method	AAT/NAP
Start	8093	End	9040
GI	417154	Score	853
Exons	8093..8218, 8618..9040		
GI Descrip.	HEAT SHOCK PROTEIN 82 gi 100685 pir  S25541 heat shock protein 82 - rice (strain Taichung Native One) gi 20256 emb CAA77978  (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56019	Strand	-
Start	1	End	821
Name	OJ000113_19.0218.C1.o1.gp	Method	AAT/GAP
Start	1	End	821
GI	269 1.R1084	Score	1621
Exons	1..821		
GI Descrip.	'417154/sp P33126 HS82_ORYSA 0.0e+00 HEAT SHOCK PROTEIN 82 >gi_100685_pir_S25541 heat shock protein 82 - rice (strain Taichung Native One) >gi_20256_emb_CAA77978_ (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]'		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o1.tm	Method	TBLASTX:Maize

Start	1	End	9075
GI	none	Score	641
Exons	1..369, 2..487, 2..481, 8083..8217, 8084..8218, 8092..8220, 8132..8218, 8618..9043, 8621..8890, 8668..9075		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o2.ts	Method	TBLASTX:Soybean
Start	1	End	9049
GI	none	Score	537
Exons	1..363, 2..475, 11..391, 8101..8190, 8117..8191, 8132..8191, 8612..8716, 8618..8716, 8693..9043, 8698..9042, 8963..9049		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o1.tc	Method	TBLASTX:Cress
Start	2	End	9049
GI	none	Score	587
Exons	2..448, 2..448, 8083..8217, 8084..8218, 8609..8890, 8618..9043, 8674..9036, 8951..9049		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o1.tw	Method	TBLASTX:Wheat
Start	2	End	310
GI	none	Score	384
Exons	2..283, 2..268, 257..310, 275..310		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o2.tc	Method	TBLASTX:Cress
Start	2423	End	3541
GI	none	Score	68
Exons	2423..2566, 2618..2731, 3044..3241, 3072..3239, 3242..3541, 3372..3494		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o1.ts	Method	TBLASTX:Soybean
Start	2438	End	3697
GI	none	Score	202
Exons	2438..2821, 2442..2744, 2870..2911, 2900..3250, 3072..3266, 3257..3355, 3359..3529, 3372..3503, 3530..3697		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o2.gs	Method	GENSCAN
Start	2444	End	4617
GI	none	Score	1
Exons	2444..3711, 4428..4617		



Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o2.np	Method	AAT/NAP
Start	2447	End	4611
GI	2541876	Score	918
Exons	2447..3706, 4423..4611		
GI Descrip.	(D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o3.tm	Method	TBLASTX:Maize
Start	2450	End	2693
GI	none	Score	141
Exons	2450..2593, 2454..2591, 2589..2693, 2597..2692		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o2.tm	Method	TBLASTX:Maize
Start	2870	End	3713
GI	none	Score	100
Exons	2870..2911, 2903..3235, 3051..3236, 3251..3508, 3372..3506, 3377..3550, 3627..3713		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o5.gp	Method	AAT/GAP
Start	3277	End	4694
GI	26292_1.R1084	Score	1348
Exons	3277..3711, 4428..4694		
GI Descrip.	'2541876/dbj BAA22813  2.0e-25 (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]'		

Seq. No.	27014	Seq. ID	OJ000113_19.0218.C1
Gene No.	56020	Strand	-
Start	2444	End	9075
Name	OJ000113_19.0218.C1.o2.tw	Method	TBLASTX:Wheat
Start	8089	End	8866
GI	none	Score	203
Exons	8089..8217, 8090..8218, 8132..8218, 8618..8860, 8620..8862, 8621..8866		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56021	Strand	+
Start	1	End	4941
Name	OJ000113_19.0218.C2.o1.np	Method	AAT/NAP
Start	1	End	1798
GI	417154	Score	2554
Exons	1..24, 248..1798		
GI Descrip.	HEAT SHOCK PROTEIN 82 gi 100685 pir  S25541 heat shock protein 82 - rice (strain Taichung Native One) gi 20256 emb CAA77978  (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56021	Strand	+
Start	1	End	4941
Name	OJ000113_19.0218.C2.o1.gs	Method	GENSCAN
Start	251	End	1801
GI	none	Score	1
Exons	251..1801		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56021	Strand	+
Start	1	End	4941
Name	OJ000113_19.0218.C2.o2.np	Method	AAT/NAP
Start	455	End	4935
GI	3600032	Score	368
Exons	455..484, 2626..3060, 3883..3962, 4008..4098, 4171..4380, 4705..4935		

GI Descrip. (AF080119) contains similarity to tropomyosin (Pfam: Tropomyosin.hmm, score: 14.57) and ATP synthase (Pfam: ATP-synt\_B.hmm, score: 10.89) [Arabidopsis thaliana]

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56021	Strand	+
Start	1	End	4941
Name	OJ000113_19.0218.C2.o2.gp	Method	AAT/GAP
Start	1448	End	2003
GI	2800361	Score	809
Exons	1448..2003		
GI Descrip.	829283/emb CAA78738  2.0e-28 (Z15018) heat shock protein hsp82 [Oryza sativa]		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56021	Strand	+
Start	1	End	4941
Name	OJ000113_19.0218.C2.o2.gs	Method	GENSCAN
Start	2500	End	4941
GI	none	Score	.92
Exons	2500..3060, 3883..4098, 4195..4377, 4711..4941		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56022	Strand	+
Start	6024	End	6947
Name	OJ000113_19.0218.C2.o3.np	Method	AAT/NAP
Start	5968	End	6944
GI	2924776	Score	250
Exons	5968..6266, 6391..6427, 6517..6638, 6885..6944		
GI Descrip.	(AC002334) unknown protein [Arabidopsis thaliana]		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56022	Strand	+
Start	6024	End	6947
Name	OJ000113_19.0218.C2.o3.gs	Method	GENSCAN
Start	6024	End	6947
GI	none	Score	.86
Exons	6024..6308, 6391..6427, 6517..6638, 6885..6947		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56023	Strand	-

Start	248	End	1890
Name	OJ000113_19.0218.C2.o1.tm	Method	TBLASTX:Maize
Start	242	End	1890
GI	none	Score	79
Exons	242..343, 243..344, 247..363, 249..374, 457..690, 467..694, 467..679, 468..680, 478..684, 632..895, 682..1275, 683..1804, 684..1010, 943..1254, 1170..1433, 1352..1576, 1402..1686, 1616..1801, 1822..1890		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56023	Strand	-
Start	248	End	1890
Name	OJ000113_19.0218.C2.o2.tw	Method	TBLASTX:Wheat
Start	242	End	697
GI	none	Score	102
Exons	242..340, 249..371, 278..334, 467..697, 478..690		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56023	Strand	-
Start	248	End	1890
Name	OJ000113_19.0218.C2.o1.gp	Method	AAT/GAP
Start	248	End	1356
GI	438_1.R1084	Score	2107
Exons	248..1356		
GI Descrip.	'417154/sp P33126 HS82_ORYSA 1.0e-172 HEAT SHOCK PROTEIN 82 >gi_100685_pir_S25541 heat shock protein 82 - rice (strain Taichung Native One) >gi_20256_emb_CAA77978_ (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]'		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56023	Strand	-
Start	248	End	1890
Name	OJ000113_19.0218.C2.o1.tc	Method	TBLASTX:Cress
Start	248	End	1801
GI	none	Score	98
Exons	248..340, 249..371, 253..366, 457..1125, 467..1771, 467..895, 876..1001, 943..1254, 1179..1265, 1335..1433, 1352..1771, 1766..1801		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56023	Strand	-
Start	248	End	1890
Name	OJ000113_19.0218.C2.o1.ts	Method	TBLASTX:Soybean
Start	255	End	1801
GI	none	Score	83
Exons	255..368, 278..331, 482..715, 488..691, 490..714, 730..798, 734..799, 806..895, 808..1125, 809..1240, 876..1001, 943..1233, 1220..1714, 1227..1262, 1335..1415, 1402..1686, 1760..1801		

Seq. No.	27015	Seq. ID	OJ000113_19.0218.C2
Gene No.	56023	Strand	-
Start	248	End	1890
Name	OJ000113_19.0218.C2.o1.tw	Method	TBLASTX:Wheat
Start	776	End	1633
GI	none	Score	1281
Exons	776..1606, 776..895, 876..1013, 943..1254, 1167..1265, 1332..1430, 1352..1573, 1402..1596, 1598..1633, 1600..1632		

Seq. No. 27015  
 Gene No. 56024  
 Start 4708  
 Name OJ000113\_19.0218.C2.o2.tc  
 Start 4708  
 GI none  
 Exons 4708..4929

Seq. ID OJ000113\_19.0218.C2  
 Strand  
 End 4929  
 Method TBLASTX:Cress  
 End 4929  
 Score 191

Seq. No. 27015  
 Gene No. 56025  
 Start 6216  
 Name OJ000113\_19.0218.C2.o2.tm  
 Start 6216  
 GI none  
 Exons 6216..6266, 6384..6428, 6449..6658, 6453..6638, 6548..6640, 6885..6932

Seq. ID OJ000113\_19.0218.C2  
 Strand  
 End 6932  
 Method TBLASTX:Maize  
 End 6932  
 Score 69

Seq. No. 27016  
 Gene No. 56026  
 Start 254  
 Name OJ000113\_19.0218.C4.o1.gs  
 Start 254  
 GI none  
 Exons 254..366, 1241..1299

Seq. ID OJ000113\_19.0218.C4  
 Strand -  
 End 1299  
 Method GENSCAN  
 End 1299  
 Score .75

Seq. No. 27017  
 Gene No. 56027  
 Start 672  
 Name OJ000113\_19.0218.C5.o1.gs  
 Start 672  
 GI none  
 Exons 672..677

Seq. ID OJ000113\_19.0218.C5  
 Strand +  
 End 677  
 Method GENSCAN  
 End 677  
 Score .61

Seq. No. 27018  
 Gene No. 56028  
 Start 258  
 Name OJ000113\_19.0218.C6.o2.np  
 Start 258  
 GI 4510387  
 Exons 258..384, 964..1074, 1275..1326, 1939..1973  
 GI Descrip. (AC007017) unknown protein [Arabidopsis thaliana]

Seq. ID OJ000113\_19.0218.C6  
 Strand +  
 End 1973  
 Method AAT/NAP  
 End 1973  
 Score 25

Seq. No. 27018  
 Gene No. 56029  
 Start 1  
 Name OJ000113\_19.0218.C6.o1.np  
 Start 1  
 GI 417154  
 Exons 1..279

Seq. ID OJ000113\_19.0218.C6  
 Strand -  
 End 1561  
 Method AAT/NAP  
 End 279  
 Score 173

GI Descrip. HEAT SHOCK PROTEIN 82 gi|100685|pir||S25541 heat shock protein 82 - rice (strain Taichung Native One) gi|20256|emb|CAA77978| (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]

Seq. No. 27018  
 Gene No. 56029  
 Start 1

Seq. ID OJ000113\_19.0218.C6  
 Strand -  
 End 1561

Name	OJ000113_19.0218.C6.ol.gp	Method	AAT/GAP
Start	150	End	393
GI	438_2.R1084	Score	362
Exons	150..393		
GI Descrip.	'5123910/emb CAA67191.1  8.0e-15 (X98582) HSP80-2 [Triticum aestivum]'		

Seq. No.	27018	Seq. ID	OJ000113_19.0218.C6
Gene No.	56029	Strand	-
Start	1	End	1561
Name	OJ000113_19.0218.C6.ol.tm	Method	TBLASTX:Maize
Start	152	End	393
GI	none	Score	150
Exons	152..280, 154..282, 155..283, 325..393		

Seq. No.	27018	Seq. ID	OJ000113_19.0218.C6
Gene No.	56029	Strand	-
Start	1	End	1561
Name	OJ000113_19.0218.C6.ol.ts	Method	TBLASTX:Soybean
Start	152	End	273
GI	none	Score	155
Exons	152..271, 154..273, 155..271		

Seq. No.	27018	Seq. ID	OJ000113_19.0218.C6
Gene No.	56029	Strand	-
Start	1	End	1561
Name	OJ000113_19.0218.C6.ol.tw	Method	TBLASTX:Wheat
Start	152	End	283
GI	none	Score	177
Exons	152..280, 154..282, 155..283		

Seq. No.	27018	Seq. ID	OJ000113_19.0218.C6
Gene No.	56029	Strand	-
Start	1	End	1561
Name	OJ000113_19.0218.C6.ol.gs	Method	GENSCAN
Start	154	End	1561
GI	none	Score	.47
Exons	154..306, 1291..1390, 1514..1561		

Seq. No.	27018	Seq. ID	OJ000113_19.0218.C6
Gene No.	56029	Strand	-
Start	1	End	1561
Name	OJ000113_19.0218.C6.ol.tc	Method	TBLASTX:Cress
Start	154	End	285
GI	none	Score	131
Exons	154..285, 155..271		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.ol.gs	Method	GENSCAN
Start	391	End	3805
GI	none	Score	.63
Exons	391..488, 1304..1458, 1590..1699, 3715..3805		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-

Start	391	End	5731
Name	OJ000113_19.0218.C7.o1.np	Method	AAT/NAP
Start	404	End	5731
GI	4585981	Score	790
Exons	404..434, 719..844, 1398..1458, 1581..1699, 1783..1880, 2175..2231, 2300..2404, 2511..2575, 3443..3545, 3715..3834, 3980..4259, 4353..4559, 4631..4860, 5593..5731		
GI Descrip.	(AC005287) similar to Na <sup>+</sup> /H <sup>+</sup> -exchanging proteins [Arabidopsis thaliana]		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.o2.tm	Method	TBLASTX:Maize
Start	410	End	2704
GI	none	Score	86
Exons	410..517, 1372..1464, 1400..1459, 1587..1700, 1587..1700, 1588..1701, 1778..1882, 1782..1883, 2153..2230, 2153..2230, 2299..2409, 2510..2575, 2512..2574, 2651..2704, 2653..2703		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.o1.ts	Method	TBLASTX:Soybean
Start	1805	End	4436
GI	none	Score	65
Exons	1805..1882, 2153..2218, 2153..2215, 2299..2397, 2300..2398, 2510..2575, 2512..2574, 2651..2710, 2653..2703, 3521..3553, 3713..3823, 3714..3812, 3994..4074, 4010..4072, 4010..4078, 4146..4253, 4148..4258, 4350..4436, 4351..4434		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.o1.tm	Method	TBLASTX:Maize
Start	3890	End	4596
GI	none	Score	35
Exons	3890..3910, 3994..4074, 4007..4072, 4007..4078, 4137..4253, 4146..4253, 4147..4254, 4148..4258, 4148..4258, 4350..4436, 4351..4437, 4536..4586, 4539..4595, 4540..4596		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.o1.tc	Method	TBLASTX:Cress
Start	3994	End	4856
GI	none	Score	70
Exons	3994..4074, 4000..4077, 4010..4078, 4146..4259, 4148..4258, 4348..4434, 4350..4436, 4539..4562, 4645..4704, 4809..4856		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.o1.gp	Method	AAT/GAP
Start	4158	End	5720
GI	uC-osflM202053d07b1	Score	706
Exons	4158..4259, 4351..4436, 4539..4563, 4643..4702, 4809..4860,		

5593..5720  
 GI Descrip. '4585981/gb|AAD25617.1|AC005287\_19.8.0e-17 (AC005287) similar to Na<sup>+</sup>/H<sup>+</sup>-exchanging proteins [Arabidopsis thaliana]'

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.o2.ts	Method	TBLASTX:Soybean
Start	4539	End	5723
GI	none	Score	171
Exons	4539..4562, 4678..4704, 4808..4867, 5588..5722, 5592..5723		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.o2.gs	Method	GENSCAN
Start	5458	End	5574
GI	none	Score	.7
Exons	5458..5574		

Seq. No.	27019	Seq. ID	OJ000113_19.0218.C7
Gene No.	56030	Strand	-
Start	391	End	5731
Name	OJ000113_19.0218.C7.o2.tc	Method	TBLASTX:Cress
Start	5588	End	5722
GI	none	Score	141
Exons	5588..5722, 5592..5720		

Seq. No.	27020	Seq. ID	OJ000113_19.0218.C8
Gene No.	56031	Strand	+
Start	1743	End	4217
Name	OJ000113_19.0218.C8.o1.np	Method	AAT/NAP
Start	1743	End	4217
GI	4966347	Score	531
Exons	1743..2293, 2390..2676, 3365..3445, 3607..4217		
GI Descrip..	(AC006341) Similar to gb AJ012423 wall-associated kinase 2 from Arabidopsis thaliana.		

Seq. No.	27020	Seq. ID	OJ000113_19.0218.C8
Gene No.	56031	Strand	+
Start	1743	End	4217
Name	OJ000113_19.0218.C8.o1.gs	Method	GENSCAN
Start	1800	End	4027
GI	none	Score	.93
Exons	1800..2676, 3365..3451, 3610..3936, 3984..4027		

Seq. No.	27020	Seq. ID	OJ000113_19.0218.C8
Gene No.	56031	Strand	+
Start	1743	End	4217
Name	OJ000113_19.0218.C8.o1.tc	Method	TBLASTX:Cress
Start	1839	End	4217
GI	none	Score	80
Exons	1839..1910, 2613..2675, 3690..3761, 3779..4081, 3792..4091, 3890..4081, 4110..4217		

Seq. No.	27020	Seq. ID	OJ000113_19.0218.C8
Gene No.	56031	Strand	+

Start	1743	End	4217
Name	OJ000113_19.0218.C8.o1.ts	Method	TBLASTX:Soybean
Start	3693	End	4214
GI	none	Score	57
Exons	3693..3761, 3792..3944, 3923..4087, 3933..4109, 4110..4214, 4115..4213		

Seq. No.	27020	Seq. ID	OJ000113_19.0218.C8
Gene No.	56031	Strand	+
Start	1743	End	4217
Name	OJ000113_19.0218.C8.o1.tm	Method	TBLASTX:Maize
Start	3699	End	4217
GI	none	Score	53
Exons	3699..3761, 3792..4097, 3887..4075, 4113..4217, 4118..4216		

Seq. No.	27020	Seq. ID	OJ000113_19.0218.C8
Gene No.	56031	Strand	+
Start	1743	End	4217
Name	OJ000113_19.0218.C8.o1.tw	Method	TBLASTX:Wheat
Start	3748	End	4165
GI	none	Score	426
Exons	3748..3918, 3777..4103, 3902..4075, 3940..4098, 4115..4165		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56032	Strand	+
Start	9240	End	10103
Name	OJ000113_19.0218.C10.o2.gs	Method	GENSCAN
Start	9240	End	10103
GI	none	Score	.56
Exons	9240..9602, 10071..10103		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56033	Strand	-
Start	1574	End	13349
Name	OJ000113_19.0218.C10.o1.gs	Method	GENSCAN
Start	1574	End	7945
GI	none	Score	.63
Exons	1574..1746, 2509..2619, 2842..3719, 4312..4557, 4679..4782, 4941..5475, 6003..6434, 7734..7945		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56033	Strand	-
Start	1574	End	13349
Name	OJ000113_19.0218.C10.o1.np	Method	AAT/NAP
Start	2816	End	13299
GI	6721520	Score	1534
Exons	2816..3719, 4312..4554, 4679..4782, 4941..5475, 6003..6168, 6236..6465, 13085..13158, 13192..13299		

GI Descrip. (AP001072) EST AU029428(E30359) corresponds to a region of the predicted gene.; Similar to antifreeze-like protein (D86598) [Oryza sativa]

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56033	Strand	-
Start	1574	End	13349
Name	OJ000113_19.0218.C10.o1.gp	Method	AAT/GAP
Start	3461	End	4441



GI 5607470 Score 758  
 Exons 3461..3719, 4312..4441  
 GI Descrip. 1483177/dbj|BAA13135| 3.0e-24 (D86598) antifreeze-like protein  
 (af70) [Picea abies]

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56033	Strand	-
Start	1574	End	13349
Name	OJ000113_19.0218.C10.o2.gp	Method	AAT/GAP
Start	6354	End	8020
GI	5607469	Score	700
Exons	6354..6434, 7734..8020		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56033	Strand	-
Start	1574	End	13349
Name	OJ000113_19.0218.C10.o3.gp	Method	AAT/GAP
Start	10278	End	11839
GI	12582_1.R1084	Score	1052
Exons	10278..10583, 10684..10758, 10895..10963, 11602..11715, 11786..11839		
GI Descrip.	'1483177/dbj BAA13135  3.0e-24 (D86598) antifreeze-like protein (af70) [Picea abies]'		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56033	Strand	-
Start	1574	End	13349
Name	OJ000113_19.0218.C10.o3.gs	Method	GENSCAN
Start	10494	End	13305
GI	none	Score	.83
Exons	10494..10583, 10684..10758, 10895..10963, 11602..11715, 12886..13305		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56033	Strand	-
Start	1574	End	13349
Name	OJ000113_19.0218.C10.o4.gp	Method	AAT/GAP
Start	12900	End	13349
GI	2800165	Score	747
Exons	12900..13349		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56034	Strand	-
Start	13676	End	14104
Name	OJ000113_19.0218.C10.o5.gp	Method	AAT/GAP
Start	13676	End	14104
GI	4715863	Score	831
Exons	13676..14104		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o2.tm	Method	TBLASTX:Maize
Start	2817	End	3307
GI	none	Score	136
Exons	2817..2909, 2822..2905, 2895..2999, 2918..3088, 3095..3157, 3096..3140, 3167..3307, 3278..3295		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o1.ts	Method	TBLASTX:Soybean
Start	2820	End	6421
GI	none	Score	75
Exons	2820..2888, 2822..2893, 2918..3070, 2919..2999, 3086..3148, 3105..3140, 3173..3433, 3318..3530, 3491..3529, 3548..3679, 3549..3674, 4308..4595, 4678..4782, 4956..5087, 4957..5088, 5058..5243, 5059..5244, 5244..5396, 5329..5394, 5451..5477, 5987..6142, 6006..6143, 6230..6421, 6231..6398		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o1.tc	Method	TBLASTX:Cress
Start	2822	End	6400
GI	none	Score	110
Exons	2822..2881, 3200..3355, 3374..3433, 3491..3541, 3561..3674, 3563..3673, 4380..4553, 4926..5144, 4963..5133, 5166..5402, 5332..5415, 5433..5477, 6002..6142, 6003..6143, 6263..6400, 6264..6332		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o1.tw	Method	TBLASTX:Wheat
Start	2939	End	3307
GI	none	Score	95
Exons	2939..3088, 2939..3088, 3092..3148, 3096..3140, 3197..3307, 3207..3254, 3278..3295		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o7.tm	Method	TBLASTX:Maize
Start	3353	End	3671
GI	none	Score	71
Exons	3353..3433, 3396..3518, 3432..3518, 3563..3670, 3564..3671		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o2.tw	Method	TBLASTX:Wheat
Start	4950	End	5249
GI	none	Score	124
Exons	4950..5147, 4963..5148, 5133..5249, 5167..5247		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o1.tm	Method	TBLASTX:Maize
Start	4951	End	5429
GI	none	Score	357
Exons	4951..5280, 4953..5429, 5326..5421		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o4.tm	Method	TBLASTX:Maize
Start	6002	End	6418
GI	none	Score	115
Exons	6002..6142, 6006..6143, 6224..6418		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o3.tm	Method	TBLASTX:Maize
Start	11587	End	12046
GI	none	Score	62
Exons	11587..11640, 11587..11646, 11601..11654, 11645..11716, 11650..11718, 11651..11716, 11780..11893, 11785..11895, 11787..11882, 11996..12046, 12005..12046		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o2.ts	Method	TBLASTX:Soybean
Start	12266	End	13122
GI	none	Score	65
Exons	12266..12316, 12268..12315, 12866..13066, 12886..13122		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o6.tm	Method	TBLASTX:Maize
Start	12866	End	13053
GI	none	Score	155
Exons	12866..13045, 12886..13047, 12925..13053		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o4.gs	Method	GENSCAN
Start	14063	End	14733
GI	none	Score	.97
Exons	14063..14254, 14608..14733		

Seq. No.	27021	Seq. ID	OJ000113_19.0218.C10
Gene No.	56035	Strand	-
Start	14063	End	14733
Name	OJ000113_19.0218.C10.o5.tm	Method	TBLASTX:Maize
Start	14093	End	14258
GI	none	Score	176
Exons	14093..14257, 14093..14257, 14094..14258, 14094..14258		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56036	Strand	+
Start	3688	End	4180
Name	OJ000113_19.0218.C11.o2.gs	Method	GENSCAN
Start	3688	End	4180
GI	none	Score	.99
Exons	3688..3782, 3979..4014, 4075..4180		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56037	Strand	+
Start	5585	End	9788
Name	OJ000113_19.0218.C11.o3.gs	Method	GENSCAN
Start	5585	End	9788
GI	none	Score	.71
Exons	5585..5746, 6051..6188, 6597..6665, 7373..7443, 8034..8148, 8238..8327, 8967..9041, 9243..9323, 9460..9519, 9612..9788		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56037	Strand	+
Start	5585	End	9788
Name	OJ000113_19.0218.C11.o3.gp	Method	AAT/GAP
Start	5827	End	9481
GI	18310_1.R1084	Score	1429
Exons	5827..5983, 6127..6188, 6597..6665, 6811..6892, 7373..7443, 8047..8148, 8238..8327, 8967..9041, 9136..9168, 9243..9323, 9460..9481		
GI Descrip.	'2213583 3.0e-51 (AC000348) T7N9.3 [Arabidopsis thaliana]'		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56037	Strand	+
Start	5585	End	9788
Name	OJ000113_19.0218.C11.o1.np	Method	AAT/NAP
Start	6792	End	9755
GI	2947068	Score	160
Exons	6792..6890, 7377..7443, 8047..8148, 8238..8327, 8967..9041, 9210..9323, 9642..9755		
GI Descrip.	(AC002521) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56038	Strand	-
Start	198	End	304
Name	OJ000113_19.0218.C11.o1.gp	Method	AAT/GAP
Start	198	End	304
GI	LIB3477-003-P1-K1-E9	Score	125
Exons	198..304		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56039	Strand	-
Start	726	End	2642
Name	OJ000113_19.0218.C11.o2.gp	Method	AAT/GAP
Start	384	End	1532
GI	none	Score	827
Exons	384..765, 1418..1532		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56039	Strand	-
Start	726	End	2642
Name	OJ000113_19.0218.C11.o1.gs	Method	GENSCAN
Start	726	End	2642
GI	none	Score	.69
Exons	726..765, 1418..1557, 2238..2642		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56040	Strand	-
Start	9610	End	10091
Name	OJ000113_19.0218.C11.o4.gp	Method	AAT/GAP
Start	9610	End	10091
GI	none	Score	952
Exons	9610..10091		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56041	Strand	-
Start	15623	End	16172
Name	OJ000113_19.0218.C11.o1.tc	Method	TBLASTX:Cress
Start	541	End	1570
GI	none	Score	93
Exons	541..747, 550..753, 551..760, 1411..1569, 1412..1570		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56041	Strand	-
Start	15623	End	16172
Name	OJ000113_19.0218.C11.o2.tm	Method	TBLASTX:Maize
Start	2367	End	2565
GI	none	Score	180
Exons	2367..2558, 2368..2565		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56041	Strand	-
Start	15623	End	16172
Name	OJ000113_19.0218.C11.o1.tm	Method	TBLASTX:Maize
Start	5919	End	9793
GI	none	Score	91
Exons	5919..5984, 5926..5988, 6113..6184, 6120..6188, 6121..6189, 6591..6665, 6597..6668, 6808..6894, 6808..6891, 6810..6893, 7366..7443, 7372..7443, 8044..8148, 8046..8150, 8046..8147, 8237..8329, 8238..8330, 8238..8330, 8964..9059, 8965..9042, 8966..9043, 9136..9201, 9138..9182, 9237..9323, 9239..9325, 9239..9307, 9574..9666, 9610..9672, 9671..9715, 9684..9710, 9721..9792, 9737..9793		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56041	Strand	-
Start	15623	End	16172
Name	OJ000113_19.0218.C11.o1.tw	Method	TBLASTX:Wheat
Start	8964	End	9723
GI	none	Score	107
Exons	8964..9059, 8965..9042, 8966..9043, 8973..9053, 9137..9169, 9137..9169, 9141..9173, 9237..9323, 9239..9310, 9457..9519, 9457..9519, 9592..9723, 9612..9722		

Seq. No.	27022	Seq. ID	OJ000113_19.0218.C11
Gene No.	56041	Strand	-
Start	15623	End	16172
Name	OJ000113_19.0218.C11.o5.gp	Method	AAT/GAP
Start	15623	End	16172
GI	none	Score	1028
Exons	15623..16172		

Seq. No. 27023  
 Gene No. 56042  
 Start 1  
 Name OJ000113\_19.0218.C12.o1.gp  
 Start 1  
 GI none  
 Exons 1..488

Seq. ID OJ000113\_19.0218.C12  
 Strand -  
 End 547  
 Method AAT/GAP  
 End 488  
 Score 878

Seq. No. 27023  
 Gene No. 56042  
 Start 1  
 Name OJ000113\_19.0218.C12.o1.gs  
 Start 340  
 GI none  
 Exons 340..547

Seq. ID OJ000113\_19.0218.C12  
 Strand -  
 End 547  
 Method GENSCAN  
 End 547  
 Score .9

Seq. No. 27024  
 Gene No. 56043  
 Start 34  
 Name OJ000113\_19.0218.C13.o1.gs  
 Start 34  
 GI none  
 Exons 34..174

Seq. ID OJ000113\_19.0218.C13  
 Strand -  
 End 174  
 Method GENSCAN  
 End 174  
 Score .93

Seq. No. 27025  
 Gene No. 56044  
 Start 1  
 Name OJ000113\_17.0225.C1.o1.np  
 Start 1  
 GI 6815099  
 Exons 1..208

Seq. ID OJ000113\_17.0225.C1  
 Strand +  
 End 208  
 Method AAT/NAP  
 End 208  
 Score 81

GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. No. 27026  
 Gene No. 56045  
 Start 1704  
 Name OJ000113\_17.0225.C2.o1.tm  
 Start 1701  
 GI none  
 Exons 1701..1847, 1705..1851, 1708..1803, 3299..3415, 3303..3431, 3304..3432, 3304..3447, 4217..4381, 4227..4331, 4228..4335, 4418..4507, 4418..4510, 4422..4511, 4440..4523, 4784..4834, 4790..4894, 4803..4895

Seq. ID OJ000113\_17.0225.C2  
 Strand -  
 End 6932  
 Method TBLASTX:Maize  
 End 4895  
 Score 131

Seq. No. 27026  
 Gene No. 56045  
 Start 1704  
 Name OJ000113\_17.0225.C2.o1.gs  
 Start 1704  
 GI none  
 Exons 1704..1847, 3304..3447, 4219..4335, 4418..4546, 4787..4938, 6490..6578, 6739..6824

Seq. ID OJ000113\_17.0225.C2  
 Strand -  
 End 6932  
 Method GENSCAN  
 End 6824  
 Score .89

Seq. No. 27026  
 Gene No. 56045  
 Start 1704  
 Name OJ000113\_17.0225.C2.o1.np

Seq. ID OJ000113\_17.0225.C2  
 Strand -  
 End 6932  
 Method AAT/NAP

Start 1707 End 6932  
 GI 6714363 Score 816  
 Exons 1707..1847, 3304..3447, 4219..4335, 4418..4530, 4783..4938,  
 6490..6578, 6739..6932  
 GI Descrip. (AC012562) unknown protein [Arabidopsis thaliana]

Seq. No. 27026 Seq. ID OJ000113\_17.0225.C2  
 Gene No. 56045 Strand -  
 Start 1704 End 6932  
 Name OJ000113\_17.0225.C2.ol.tc Method TBLASTX:Cress  
 Start 1773 End 4314  
 GI none Score 105  
 Exons 1773..1847, 3296..3415, 3304..3447, 3322..3450, 3389..3448,  
 4217..4312, 4219..4314

Seq. No. 27026 Seq. ID OJ000113\_17.0225.C2  
 Gene No. 56045 Strand -  
 Start 1704 End 6932  
 Name OJ000113\_17.0225.C2.ol.ts Method TBLASTX:Soybean  
 Start 3299 End 6795  
 GI none Score 114  
 Exons 3299..3415, 3304..3447, 4211..4393, 4219..4335, 4418..4507,  
 4418..4516, 4419..4517, 4787..4939, 6458..6580, 6491..6580,  
 6504..6581, 6736..6795, 6741..6794

Seq. No. 27026 Seq. ID OJ000113\_17.0225.C2  
 Gene No. 56045 Strand -  
 Start 1704 End 6932  
 Name OJ000113\_17.0225.C2.ol.gp Method AAT/GAP  
 Start 4830 End 6860  
 GI uC-osroM202041g11b1 Score 927  
 Exons 4830..4938, 6490..6860  
 GI Descrip. '3786011 1.0e-14 (AC005499) putative elongation factor  
 [Arabidopsis thaliana]'

Seq. No. 27027 Seq. ID OJ000113\_17.0225.C5  
 Gene No. 56046 Strand +  
 Start 1 End 718  
 Name OJ000113\_17.0225.C5.ol.np Method AAT/NAP  
 Start 1 End 718  
 GI 5852093 Score 58  
 Exons 1..43, 612..718  
 GI Descrip. (AL117264) zwh16.1 [Oryza sativa]

Seq. No. 27028 Seq. ID OJ000113\_17.0225.C7  
 Gene No. 56047 Strand -  
 Start 412 End 439  
 Name OJ000113\_17.0225.C7.ol.gs Method GENSCAN  
 Start 412 End 439  
 GI none Score .46  
 Exons 412..439

Seq. No. 27029 Seq. ID OJ000113\_17.0225.C8  
 Gene No. 56048 Strand -  
 Start 2154 End 5814  
 Name OJ000113\_17.0225.C8.ol.gs Method GENSCAN  
 Start 2154 End 5321

GI none Score .41  
 Exons 2154..2302, 4274..4381, 4530..4740, 4993..5059, 5148..5321

Seq. No. 27029 Seq. ID OJ000113\_17.0225.C8  
 Gene No. 56048 Strand -  
 Start 2154 End 5814  
 Name OJ000113\_17.0225.C8.o1.np Method AAT/NAP  
 Start 3602 End 5814  
 GI 6652882 Score 172  
 Exons 3602..3622, 4965..5443, 5779..5814  
 GI Descrip. (AF123392) 26S proteasome AAA-ATPase subunit RPT3 [Arabidopsis thaliana]

Seq. No. 27030 Seq. ID OJ000113\_17.0225.C9  
 Gene No. 56049 Strand +  
 Start 218 End 2549  
 Name OJ000113\_17.0225.C9.o1.gs Method GENSCAN  
 Start 218 End 2549  
 GI none Score .63  
 Exons 218..413, 825..1035, 2275..2549

Seq. No. 27030 Seq. ID OJ000113\_17.0225.C9  
 Gene No. 56050 Strand -  
 Start 3782 End 5754  
 Name OJ000113\_17.0225.C9.o2.gs Method GENSCAN  
 Start 3782 End 5754  
 GI none Score .47  
 Exons 3782..3796, 4685..4839, 5697..5754

Seq. No. 27031 Seq. ID OJ000113\_17.0225.C10  
 Gene No. 56051 Strand +  
 Start 9391 End 11512  
 Name OJ000113\_17.0225.C10.o3.gs Method GENSCAN  
 Start 9391 End 11512  
 GI none Score .7  
 Exons 9391..9573, 11012..11512

Seq. No. 27031 Seq. ID OJ000113\_17.0225.C10  
 Gene No. 56052 Strand -  
 Start 1563 End 4339  
 Name OJ000113\_17.0225.C10.o1.gs Method GENSCAN  
 Start 1563 End 4339  
 GI none Score .47  
 Exons 1563..1693, 2524..2641, 4096..4208, 4252..4339

Seq. No. 27031 Seq. ID OJ000113\_17.0225.C10  
 Gene No. 56053 Strand -  
 Start 7504 End 8520  
 Name OJ000113\_17.0225.C10.o2.gs Method GENSCAN  
 Start 7504 End 8520  
 GI none Score .51  
 Exons 7504..7541, 8484..8520

Seq. No. 27032 Seq. ID OJ000113\_17.0225.C11  
 Gene No. 56054 Strand +  
 Start 107 End 5116  
 Name OJ000113\_17.0225.C11.o1.gs Method GENSCAN



Start	107	End	5083
GI	none	Score	.58
Exons	107..129, 2904..3039, 3604..3770, 3941..4767, 4830..5083		

Seq. No.	27032	Seq. ID	OJ000113_17.0225.C11
Gene No.	56054	Strand	+
Start	107	End	5116
Name	OJ000113_17.0225.C11.o1.np	Method	AAT/NAP
Start	3543	End	5116
GI	6539588	Score	197
Exons	3543..3830, 5074..5116		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	27033	Seq. ID	OJ000113_17.0225.C13
Gene No.	56055	Strand	+
Start	201	End	3468
Name	OJ000113_17.0225.C13.o1.gs	Method	GENSCAN
Start	201	End	3379
GI	none	Score	.58
Exons	201..240, 1328..1443, 2528..2701, 3089..3379		

Seq. No.	27033	Seq. ID	OJ000113_17.0225.C13
Gene No.	56055	Strand	+
Start	201	End	3468
Name	OJ000113_17.0225.C13.o1.np	Method	AAT/NAP
Start	3228	End	3468
GI	1184100	Score	47
Exons	3228..3468		
GI Descrip.	(U45958) pistil extensin-like protein [Nicotiana glauca]		

Seq. No.	27034	Seq. ID	OJ000113_17.0225.C14
Gene No.	56056	Strand	+
Start	144	End	458
Name	OJ000113_17.0225.C14.o1.gs	Method	GENSCAN
Start	144	End	458
GI	none	Score	.41
Exons	144..458		

Seq. No.	27034	Seq. ID	OJ000113_17.0225.C14
Gene No.	56057	Strand	+
Start	512	End	886
Name	OJ000113_17.0225.C14.o1.tm	Method	TBLASTX:Maize
Start	512	End	886
GI	none	Score	139
Exons	512..748, 537..644, 545..733, 711..749, 738..764, 753..788, 818..853, 827..886		

Seq. No.	27035	Seq. ID	OJ000113_17.0225.C19
Gene No.	56058	Strand	+
Start	739	End	7311
Name	OJ000113_17.0225.C19.o1.gs	Method	GENSCAN
Start	739	End	7311
GI	none	Score	.55
Exons	739..784, 1840..2031, 2157..2221, 3428..3552, 3867..4074, 4655..4809, 6757..6897, 7251..7311		

Seq. No.	27035	Seq. ID	OJ000113_17.0225.C19
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Gene No.	56058	Strand	+
Start	739	End	7311
Name	OJ000113_17.0225.C19.o1.gp	Method	AAT/GAP
Start	1149	End	1605
GI	4968598	Score	726
Exons	1149..1605		

Seq. No.	27035	Seq. ID	OJ000113_17.0225.C19
Gene No.	56058	Strand	+
Start	739	End	7311
Name	OJ000113_17.0225.C19.o1.np	Method	AAT/NAP
Start	1781	End	3460
GI	6539588	Score	329
Exons	1781..2095, 3417..3460		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	27035	Seq. ID	OJ000113_17.0225.C19
Gene No.	56058	Strand	+
Start	739	End	7311
Name	OJ000113_17.0225.C19.o2.np	Method	AAT/NAP
Start	3773	End	4083
GI	6539588	Score	220
Exons	3773..4083		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	27035	Seq. ID	OJ000113_17.0225.C19
Gene No.	56059	Strand	+
Start	20317	End	20396
Name	OJ000113_17.0225.C19.o2.gp	Method	AAT/GAP
Start	20317	End	20396
GI	38012_1.R1084	Score	100
Exons	20317..20396		
GI Descrip.	'4097947/gb U72255 OSU72255.2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	27035	Seq. ID	OJ000113_17.0225.C19
Gene No.	56060	Strand	+
Start	23548	End	23874
Name	OJ000113_17.0225.C19.o5.gs	Method	GENSCAN
Start	23548	End	23874
GI	none	Score	.66
Exons	23548..23874		

Seq. No.	27035	Seq. ID	OJ000113_17.0225.C19
Gene No.	56061	Strand	-
Start	9028	End	11947
Name	OJ000113_17.0225.C19.o2.gs	Method	GENSCAN
Start	9028	End	11947
GI	none	Score	.55
Exons	9028..9122, 9257..9402, 9661..9894, 10356..10487, 11189..11464, 11660..11805, 11822..11947		

Seq. No.	27035	Seq. ID	OJ000113_17.0225.C19
Gene No.	56062	Strand	-
Start	21709	End	28046
Name	OJ000113_17.0225.C19.o3.np	Method	AAT/NAP
Start	21709	End	28046

GI 4587513 Score 443  
 Exons 21709..21769, 26946..28046  
 GI Descrip. (AC007060) Contains eukaryotic protein kinase domain PF|00069.  
 [Arabidopsis thaliana]

Seq. No. 27035 Seq. ID OJ000113\_17.0225.C19  
 Gene No. 56062 Strand -  
 Start 21709 End 28046  
 Name OJ000113\_17.0225.C19.o6.gs Method GENSCAN  
 Start 26891 End 27986  
 GI none Score .58  
 Exons 26891..27986

Seq. No. 27035 Seq. ID OJ000113\_17.0225.C19  
 Gene No. 56062 Strand -  
 Start 21709 End 28046  
 Name OJ000113\_17.0225.C19.o1.tc Method TBLASTX:Cress  
 Start 27047 End 27907  
 GI none Score 125  
 Exons 27047..27184, 27281..27634, 27626..27769, 27779..27907

Seq. No. 27035 Seq. ID OJ000113\_17.0225.C19  
 Gene No. 56062 Strand -  
 Start 21709 End 28046  
 Name OJ000113\_17.0225.C19.o1.tm Method TBLASTX:Maize  
 Start 27053 End 27904  
 GI none Score 107  
 Exons 27053..27190, 27245..27604, 27629..27754, 27776..27904

Seq. No. 27035 Seq. ID OJ000113\_17.0225.C19  
 Gene No. 56062 Strand -  
 Start 21709 End 28046  
 Name OJ000113\_17.0225.C19.o1.ts Method TBLASTX:Soybean  
 Start 27065 End 27904  
 GI none Score 67  
 Exons 27065..27190, 27236..27613, 27237..27455, 27626..27754,  
 27776..27904

Seq. No. 27035 Seq. ID OJ000113\_17.0225.C19  
 Gene No. 56062 Strand -  
 Start 21709 End 28046  
 Name OJ000113\_17.0225.C19.o1.tw Method TBLASTX:Wheat  
 Start 27273 End 27628  
 GI none Score 59  
 Exons 27273..27455, 27281..27604, 27281..27628

Seq. No. 27036 Seq. ID OJ000113\_17.0225.C20  
 Gene No. 56063 Strand +  
 Start 1505 End 1592  
 Name OJ000113\_17.0225.C20.o2.gp Method AAT/GAP  
 Start 1505 End 1592  
 GI uC-osflcyp104c12a1 Score 152  
 Exons 1505..1592  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 3.0e-29 Oryza sativa  
 indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No. 27036 Seq. ID OJ000113\_17.0225.C20

Gene No.	56064	Strand	-
Start	39	End	384
Name	OJ000113_17.0225.C20.ol.gs	Method	GENSCAN
Start	39	End	384
GI	none	Score	.88
Exons	39..384		

  

Seq. No.	27036	Seq. ID	OJ000113_17.0225.C20
Gene No.	56065	Strand	-
Start	1032	End	1127
Name	OJ000113_17.0225.C20.ol.gp	Method	AAT/GAP
Start	1032	End	1127
GI	uC-osflcyp022c06b2	Score	147
Exons	1032..1127		
GI Descrip.	'5042437/gb AC007789.1 AC007789.8.0e-25 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	27037	Seq. ID	OJ000113_12.0223.C1
Gene No.	56066	Strand	-
Start	260	End	556
Name	OJ000113_12.0223.C1.ol.gs	Method	GENSCAN
Start	260	End	556
GI	none	Score	.86
Exons	260..556		

Seq. No.	27038	Seq. ID	OJ000113_12.0223.C2
Gene No.	56067	Strand	+
Start	195	End	1566
Name	OJ000113_12.0223.C2.ol.gs	Method	GENSCAN
Start	195	End	1566
GI	none	Score	.95
Exons	195..273, 1529..1566		

Seq. No.	27039	Seq. ID	OJ000113_12.0223.C3
Gene No.	56068	Strand	-
Start	46	End	323
Name	OJ000113_12.0223.C3.ol.gs	Method	GENSCAN
Start	46	End	323
GI	none	Score	.64
Exons	46..323		

Seq. No.	27040	Seq. ID	OJ000113_12.0223.C4
Gene No.	56069	Strand	-
Start	1	End	768
Name	OJ000113_12.0223.C4.ol.np	Method	AAT/NAP
Start	1	End	768
GI	114534	Score	289
Exons	1..41, 442..768		

GI Descrip. ATP SYNTHASE ALPHA CHAIN gi|67828|pir||PWWTA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - wheat chloroplast gi|552976 (M16842) ATP synthase alpha subunit [Triticum aestivum]

Seq. No.	27040	Seq. ID	OJ000113_12.0223.C4
Gene No.	56069	Strand	-
Start	1	End	768
Name	OJ000113_12.0223.C4.ol.ts	Method	TBLASTX:Soybean
Start	445	End	691

GI none Score 166  
 Exons 445..657, 450..659, 453..659, 454..660, 664..690, 668..691

Seq. No. 27040 Seq. ID OJ000113\_12.0223.C4  
 Gene No. 56069 Strand -  
 Start 1 End 768  
 Name OJ000113\_12.0223.C4.o1.gp Method AAT/GAP  
 Start 446 End 592  
 GI LIB3431-040-P1-K2-C1 Score 238  
 Exons 446..592  
 GI Descrip. '114521/sp|P12084|ATPA\_ORYSA 6.0e-53 ATP SYNTHASE ALPHA CHAIN  
 >gi\_67827\_pir\_PWRZA H+-transporting ATP synthase (EC 3.6.1.34)  
 alpha chain - rice chloroplast >gi\_11979\_emb\_CAA33993\_ (X15901)  
 ATPase alpha subunit [Oryza sativa] >gi\_226696\_prf\_1603356X  
 ATPase.alpha [Oryza sativa]'

Seq. No. 27040 Seq. ID OJ000113\_12.0223.C4  
 Gene No. 56069 Strand -  
 Start 1 End 768  
 Name OJ000113\_12.0223.C4.o1.tc Method TBLASTX:Cress  
 Start 450 End 648  
 GI none Score 99  
 Exons 450..647, 453..644, 454..648, 454..648

Seq. No. 27040 Seq. ID OJ000113\_12.0223.C4  
 Gene No. 56069 Strand -  
 Start 1 End 768  
 Name OJ000113\_12.0223.C4.o1.gs Method GENSCAN  
 Start 534 End 752  
 GI none Score .61  
 Exons 534..752

Seq. No. 27041 Seq. ID OJ000113\_12.0223.C5  
 Gene No. 56070 Strand -  
 Start 1 End 771  
 Name OJ000113\_12.0223.C5.o1.np Method AAT/NAP  
 Start 1 End 771  
 GI 4586056 Score 278  
 Exons 1..180, 660..771  
 GI Descrip. (AC007020) unknown protein [Arabidopsis thaliana]

Seq. No. 27041 Seq. ID OJ000113\_12.0223.C5  
 Gene No. 56070 Strand -  
 Start 1 End 771  
 Name OJ000113\_12.0223.C5.o1.ts Method TBLASTX:Soybean  
 Start 21 End 769  
 GI none Score 90  
 Exons 21..182, 51..158, 55..180, 659..769

Seq. No. 27041 Seq. ID OJ000113\_12.0223.C5  
 Gene No. 56070 Strand -  
 Start 1 End 771  
 Name OJ000113\_12.0223.C5.o1.tc Method TBLASTX:Cress  
 Start 51 End 770  
 GI none Score 105  
 Exons 51..182, 58..183, 659..769, 660..770

Seq. No. 27042  
 Gene No. 56071  
 Start 165  
 Name OJ000113\_12.0223.C7.o1.gs  
 Start 165  
 GI none  
 Exons 165..176, 224..364

Seq. ID OJ000113\_12.0223.C7  
 Strand -  
 End 364  
 Method GENSCAN  
 End 364  
 Score .79

Seq. No. 27043  
 Gene No. 56072  
 Start 1  
 Name OJ000113\_12.0223.C8.o1.np  
 Start 1  
 GI 4680179  
 Exons 1..781

Seq. ID OJ000113\_12.0223.C8  
 Strand +  
 End 781  
 Method AAT/NAP  
 End 781  
 Score 923

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 27043  
 Gene No. 56072  
 Start 1  
 Name OJ000113\_12.0223.C8.o2.tm  
 Start 7  
 GI none  
 Exons 7..174, 22..171

Seq. ID OJ000113\_12.0223.C8  
 Strand +  
 End 781  
 Method TBLASTX:Maize  
 End 174  
 Score 224

Seq. No. 27043  
 Gene No. 56072  
 Start 1  
 Name OJ000113\_12.0223.C8.o2.tw  
 Start 13  
 GI none  
 Exons 13..177, 19..159, 24..176

Seq. ID OJ000113\_12.0223.C8  
 Strand +  
 End 781  
 Method TBLASTX:Wheat  
 End 177  
 Score 251

Seq. No. 27043  
 Gene No. 56072  
 Start 1  
 Name OJ000113\_12.0223.C8.o1.tw  
 Start 213  
 GI none  
 Exons 213..740, 290..736

Seq. ID OJ000113\_12.0223.C8  
 Strand +  
 End 781  
 Method TBLASTX:Wheat  
 End 740  
 Score 595

Seq. No. 27043  
 Gene No. 56072  
 Start 1  
 Name OJ000113\_12.0223.C8.o1.tm  
 Start 387  
 GI none  
 Exons 387..779, 426..620, 500..778

Seq. ID OJ000113\_12.0223.C8  
 Strand +  
 End 781  
 Method TBLASTX:Maize  
 End 779  
 Score 356

Seq. No. 27043  
 Gene No. 56072  
 Start 1  
 Name OJ000113\_12.0223.C8.o1.tc  
 Start 447  
 GI none  
 Exons 447..620, 468..566, 621..764, 623..748

Seq. ID OJ000113\_12.0223.C8  
 Strand +  
 End 781  
 Method TBLASTX:Cress  
 End 764  
 Score 101

Seq. No. 27043  
 Gene No. 56072  
 Start 1  
 Name OJ000113\_12.0223.C8.o1.ts  
 Start 533  
 GI none  
 Exons 533..781, 540..779

Seq. ID OJ000113\_12.0223.C8  
 Strand +  
 End 781  
 Method TBLASTX:Soybean  
 End 781  
 Score 287

Seq. No. 27044  
 Gene No. 56073  
 Start 276  
 Name OJ000113\_12.0223.C11.o1.gs  
 Start 276  
 GI none  
 Exons 276..344

Seq. ID OJ000113\_12.0223.C11  
 Strand -  
 End 344  
 Method GENSCAN  
 End 344  
 Score .82

Seq. No. 27045  
 Gene No. 56074  
 Start 1  
 Name OJ000113\_12.0223.C12.o1.np  
 Start 1  
 GI 3805962  
 Exons 1..129, 234..478, 623..768

Seq. ID OJ000113\_12.0223.C12  
 Strand -  
 End 768  
 Method AAT/NAP  
 End 768  
 Score 660

GI.Descrip. (Y13772) laccase [Populus balsamifera subsp. trichocarpa]

Seq. No. 27045  
 Gene No. 56074  
 Start 1  
 Name OJ000113\_12.0223.C12.o1.gs  
 Start 38  
 GI none  
 Exons 38..180, 234..478, 623..711

Seq. ID OJ000113\_12.0223.C12  
 Strand -  
 End 768  
 Method GENSCAN  
 End 711  
 Score .87

Seq. No. 27045  
 Gene No. 56074  
 Start 1  
 Name OJ000113\_12.0223.C12.o1.ts  
 Start 39  
 GI none  
 Exons 39..110, 40..102, 104..130, 105..131, 229..477, 233..478, 619..765, 623..766

Seq. ID OJ000113\_12.0223.C12  
 Strand -  
 End 768  
 Method TBLASTX:Soybean  
 End 766  
 Score 55

Seq. No. 27045  
 Gene No. 56074  
 Start 1  
 Name OJ000113\_12.0223.C12.o1.tc  
 Start 229  
 GI none  
 Exons 229..477, 233..478, 619..696

Seq. ID OJ000113\_12.0223.C12  
 Strand -  
 End 768  
 Method TBLASTX:Cress  
 End 696  
 Score 182

Seq. No. 27045  
 Gene No. 56074  
 Start 1  
 Name OJ000113\_12.0223.C12.o1.tw  
 Start 229  
 GI none  
 Exons 229..477, 233..475, 245..478

Seq. ID OJ000113\_12.0223.C12  
 Strand -  
 End 768  
 Method TBLASTX:Wheat  
 End 478  
 Score 235

Seq. No.	27045	Seq. ID	OJ000113_12.0223.C12
Gene No.	56074	Strand	-
Start	1	End	768
Name	OJ000113_12.0223.C12.o1.tm	Method	TBLASTX:Maize
Start	235	End	699
GI	none	Score	299
Exons	235..477, 236..478, 619..699, 623..694		
Seq. No.	27046	Seq. ID	OJ000113_12.0223.C14
Gene No.	56075	Strand	-
Start	1	End	2298
Name	OJ000113_12.0223.C14.o1.np	Method	AAT/NAP
Start	1	End	2099
GI	4680206	Score	595
Exons	1..42, 507..590, 629..785, 1137..1230, 1749..1856, 1960..2099		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	27046	Seq. ID	OJ000113_12.0223.C14
Gene No.	56075	Strand	-
Start	1	End	2298
Name	OJ000113_12.0223.C14.o1.tc	Method	TBLASTX:Cress
Start	497	End	2099
GI	none	Score	38
Exons	497..550, 507..551, 508..552, 626..784, 636..785, 652..786, 1137..1226, 1138..1233, 1140..1232, 1739..1861, 1740..1859, 1960..2073, 1962..2099, 1968..2078		
Seq. No.	27046	Seq. ID	OJ000113_12.0223.C14
Gene No.	56075	Strand	-
Start	1	End	2298
Name	OJ000113_12.0223.C14.o2.tm	Method	TBLASTX:Maize
Start	502	End	788
GI	none	Score	55
Exons	502..555, 506..556, 507..563, 508..564, 634..786, 634..771, 636..788		
Seq. No.	27046	Seq. ID	OJ000113_12.0223.C14
Gene No.	56075	Strand	-
Start	1	End	2298
Name	OJ000113_12.0223.C14.o1.gs	Method	GENSCAN
Start	507	End	2092
GI	none	Score	.74
Exons	507..785, 1137..1230, 1749..1856, 1960..2092		
Seq. No.	27046	Seq. ID	OJ000113_12.0223.C14
Gene No.	56075	Strand	-
Start	1	End	2298
Name	OJ000113_12.0223.C14.o1.tm	Method	TBLASTX:Maize
Start	1760	End	2298
GI	none	Score	78
Exons	1760..1861, 1761..1856, 1962..2072, 1964..2089, 1967..2101, 2190..2294, 2218..2298		
Seq. No.	27046	Seq. ID	OJ000113_12.0223.C14
Gene No.	56075	Strand	-
Start	1	End	2298



Name	OJ000113_12.0223.C14.o1.ts	Method	TBLASTX:Soybean
Start	1787	End	2105
GI	none	Score	78
Exons	1787..1861, 1788..1859, 1960..2100, 1962..2099, 1971..2105		
Seq. No.	27047	Seq. ID	OJ000113_12.0223.C15
Gene No.	56076	Strand	+
Start	393	End	1885
Name	OJ000113_12.0223.C15.o1.tm	Method	TBLASTX:Maize
Start	387	End	1882
GI	none	Score	231
Exons	387..545, 405..542, 407..577, 407..556, 1249..1389, 1250..1390, 1251..1412, 1262..1390, 1805..1882, 1806..1874, 1807..1881		
Seq. No.	27047	Seq. ID	OJ000113_12.0223.C15
Gene No.	56076	Strand	+
Start	393	End	1885
Name	OJ000113_12.0223.C15.o1.ts	Method	TBLASTX:Soybean
Start	387	End	1342
GI	none	Score	200
Exons	387..545, 407..556, 1249..1305, 1250..1342		
Seq. No.	27047	Seq. ID	OJ000113_12.0223.C15
Gene No.	56076	Strand	+
Start	393	End	1885
Name	OJ000113_12.0223.C15.o1.np	Method	AAT/NAP
Start	393	End	1885
GI	6754856	Score	128
Exons	393..544, 1261..1389, 1805..1885		
GI Descrip.	nitrilase 1 gi 3228668 (AF069988) nitrilase 1 [Mus musculus]		
Seq. No.	27047	Seq. ID	OJ000113_12.0223.C15
Gene No.	56076	Strand	+
Start	393	End	1885
Name	OJ000113_12.0223.C15.o1.gs	Method	GENSCAN
Start	1261	End	1863
GI	none	Score	.83
Exons	1261..1389, 1805..1863		
Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56077	Strand	+
Start	1	End	532
Name	OJ000113_12.0223.C16.o1.np	Method	AAT/NAP
Start	1	End	532
GI	5031947	Score	194
Exons	1..170, 317..532		
GI Descrip.	nitrilase 1 gi 3228666 (AF069987) nitrilase 1 [Homo sapiens] gi 3242978 (AF069984) nitrilase homolog 1 [Homo sapiens]		
Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56078	Strand	+
Start	3567	End	5287
Name	OJ000113_12.0223.C16.o2.np	Method	AAT/NAP
Start	3567	End	5287
GI	6939229	Score	1059
Exons	3567..5287		
GI Descrip.	(AC020579) putative heat shock protein [Arabidopsis thaliana]		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o5.tm	Method	TBLASTX:Maize
Start	3590	End	3745
GI	none	Score	249
Exons	3590..3745, 3591..3743		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o3.tm	Method	TBLASTX:Maize
Start	3956	End	4223
GI	none	Score	121
Exons	3956..4042, 3957..4043, 4046..4138, 4047..4223		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o2.tm	Method	TBLASTX:Maize
Start	4495	End	5145
GI	none	Score	67
Exons	4495..4599, 4497..4604, 4499..4570, 4534..4599, 4656..4688, 4656..4700, 4660..4695, 4672..4920, 4699..4773, 4765..4857, 4767..4871, 4869..4925, 4930..5031, 5055..5084, 5083..5145		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o1.gp	Method	AAT/GAP
Start	7151	End	8095
GI	54434_1.R1084	Score	1195
Exons	7151..7693, 7992..8095		
GI Descrip.	'4406756/gb AAD20067  3.0e-16 (AC006836) putative integral membrane protein A3 [Arabidopsis thaliana]'		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o2.gs	Method	GENSCAN
Start	7385	End	9994
GI	none	Score	.54
Exons	7385..7466, 7555..7751, 7992..8366, 8488..8597, 8707..8750, 8942..9142, 9444..9586, 9701..9994		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o2.tc	Method	TBLASTX:Cress
Start	7496	End	8277
GI	none	Score	114
Exons	7496..7696, 7542..7688, 8020..8172, 8025..8126, 8061..8276, 8062..8277		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-

Start	7151	End	11553
Name	OJ000113_12.0223.C16.o1.ts	Method	TBLASTX:Soybean
Start	7539	End	9947
GI	none	Score	162
Exons	7539..7688, 7541..7696, 7617..7724, 7637..7696, 7983..8123, 7990..8172, 8061..8396, 8068..8136, 8188..8367, 8485..8541, 8486..8563, 8941..9111, 9008..9112, 9444..9608, 9446..9610, 9701..9946, 9861..9947		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o3.np	Method	AAT/NAP
Start	7544	End	9937
GI	4406756	Score	1361
Exons	7544..7693, 7992..8366, 8488..8619, 8965..9110, 9448..9586, 9701..9937		

GI Descrip. (AC006836) unknown protein [Arabidopsis thaliana]

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o4.tm	Method	TBLASTX:Maize
Start	8112	End	8557
GI	none	Score	208
Exons	8112..8369, 8113..8367, 8476..8550, 8477..8557		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o2.gp	Method	AAT/GAP
Start	9057	End	11553
GI	44809_2.R1084	Score	1036
Exons	9057..9110, 9448..9586, 9701..9994, 11485..11553		
GI Descrip.	'4406756/gb AAD20067  2.0e-60 (AC006836) putative integral membrane protein A3 [Arabidopsis thaliana]'		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o1.tm	Method	TBLASTX:Maize
Start	9060	End	9943
GI	none	Score	74
Exons	9060..9113, 9061..9111, 9062..9124, 9444..9608, 9446..9610, 9701..9754, 9701..9943, 9759..9803, 9858..9929		

Seq. No.	27048	Seq. ID	OJ000113_12.0223.C16
Gene No.	56079	Strand	-
Start	7151	End	11553
Name	OJ000113_12.0223.C16.o1.tc	Method	TBLASTX:Cress
Start	9070	End	9917
GI	none	Score	145
Exons	9070..9111, 9444..9587, 9446..9610, 9455..9610, 9701..9751, 9731..9916, 9762..9797, 9861..9917		

Seq. No.	27049	Seq. ID	OJ000113_12.0223.C17
Gene No.	56080	Strand	+

Start	1713	End	3482
Name	OJ000113_12.0223.C17.o1.np	Method	AAT/NAP
Start	1713	End	3482
GI	6539588	Score	119
Exons	1713..1908, 3416..3482		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	27049	Seq. ID	OJ000113_12.0223.C17
Gene No.	56081	Strand	+
Start	4620	End	5812
Name	OJ000113_12.0223.C17.o2.gs	Method	GENSCAN
Start	4620	End	5380
GI	none	Score	.45
Exons	4620..4641, 4652..4732, 5136..5380		

Seq. No.	27049	Seq. ID	OJ000113_12.0223.C17
Gene No.	56081	Strand	+
Start	4620	End	5812
Name	OJ000113_12.0223.C17.o2.tw	Method	TBLASTX:Wheat
Start	4702	End	5040
GI	none	Score	176
Exons	4702..5040, 4824..4928		

Seq. No.	27049	Seq. ID	OJ000113_12.0223.C17
Gene No.	56081	Strand	+
Start	4620	End	5812
Name	OJ000113_12.0223.C17.o2.np	Method	AAT/NAP
Start	4719	End	5812
GI	6498441	Score	346
Exons	4719..5812		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	27049	Seq. ID	OJ000113_12.0223.C17
Gene No.	56081	Strand	+
Start	4620	End	5812
Name	OJ000113_12.0223.C17.o1.tw	Method	TBLASTX:Wheat
Start	5349	End	5675
GI	none	Score	231
Exons	5349..5675, 5358..5594		

Seq. No.	27050	Seq. ID	OJ000113_12.0223.C18
Gene No.	56082	Strand	-
Start	491	End	2514
Name	OJ000113_12.0223.C18.o1.gs	Method	GENSCAN
Start	491	End	2514
GI	none	Score	.54
Exons	491..507, 2439..2514		

Seq. No.	27050	Seq. ID	OJ000113_12.0223.C18
Gene No.	56082	Strand	-
Start	491	End	2514
Name	OJ000113_12.0223.C18.o1.gp	Method	AAT/GAP
Start	1877	End	2300
GI	LIB3477-003-P1-K1-E9	Score	123
Exons	1877..1955, 2280..2300		

GI Descrip. '2498586/sp|Q40638|MPO1\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56083	Strand	+
Start	1140	End	1541
Name	OJ000113_12.0223.C19.o1.gp	Method	AAT/GAP
Start	1140	End	1541
GI	none	Score	752
Exons	1140..1541		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56084	Strand	+
Start	2291	End	2764
Name	OJ000113_12.0223.C19.o2.gs	Method	GENSCAN
Start	2291	End	2764
GI	none	Score	.99
Exons	2291..2764		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o1.gs	Method	GENSCAN
Start	1344	End	1720
GI	none	Score	.98
Exons	1344..1606, 1645..1720		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o1.np	Method	AAT/NAP
Start	1457	End	4735
GI	4335748	Score	1079
Exons	1457..1606, 2300..2674, 3221..3370, 3726..3877, 4002..4140, 4538..4735		

GI Descrip. (AC006284) putative integral membrane protein [Arabidopsis thaliana]

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o1.tc	Method	TBLASTX:Cress
Start	1460	End	2585
GI	none	Score	174
Exons	1460..1612, 2295..2372, 2343..2585, 2357..2584		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o1.ts	Method	TBLASTX:Soybean
Start	1460	End	4796
GI	none	Score	248
Exons	1460..1612, 2295..2372, 2301..2675, 2357..2680, 3218..3277, 3711..3890, 3739..3879, 3755..3880, 3997..4167, 3998..4141, 4533..4796, 4538..4786		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o2.tm	Method	TBLASTX:Maize
Start	2420	End	3274
GI	none	Score	230
Exons	2420..2680, 2442..2675, 3218..3274		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o2.gp	Method	AAT/GAP
Start	2449	End	3810
GI	uC-osflM202047e12b1	Score	916
Exons	2449..2674, 3221..3342, 3414..3457, 3703..3810		
GI Descrip.	'2498098/sp Q41706 A3 VIGUN 3.0e-34 A3 PROTEIN >gi_2129909_pir_S58310 gene A3 protein - cowpea >gi_938300_emb_CAA62086_ (X90487) unknown [Vigna unguiculata]'		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o3.gs	Method	GENSCAN
Start	2952	End	4774
GI	none	Score	.8
Exons	2952..2993, 3221..3342, 3668..3877, 4002..4146, 4538..4774		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o1.tm	Method	TBLASTX:Maize
Start	3727	End	4143
GI	none	Score	193
Exons	3727..3879, 3732..3878, 3738..3881, 3997..4143, 3998..4138		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o3.tc	Method	TBLASTX:Cress
Start	3837	End	4167
GI	none	Score	42
Exons	3837..3890, 3838..3879, 3997..4167, 3998..4141		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o3.gp	Method	AAT/GAP
Start	4121	End	6039
GI	uC-osroM202035b06b1	Score	866
Exons	4121..4146, 4538..4817, 5883..6039		
GI Descrip.	'4335747/gb AAD17424  4.0e-24 (AC006284) putative A3 protein [Vigna unguiculata] (integral membrane protein) [Arabidopsis thaliana]'		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039

Name	OJ000113_12.0223.C19.o3.tm	Method	TBLASTX:Maize
Start	4511	End	4798
GI	none	Score	45
Exons	4511..4567, 4542..4568, 4575..4775, 4583..4798		

Seq. No.	27051	Seq. ID	OJ000113_12.0223.C19
Gene No.	56085	Strand	-
Start	1344	End	6039
Name	OJ000113_12.0223.C19.o2.tc	Method	TBLASTX:Cress
Start	4533	End	4775
GI	none	Score	154
Exons	4533..4775, 4535..4774		

Seq. No.	27052	Seq. ID	OJ000113_12.0223.C20
Gene No.	56086	Strand	+
Start	915	End	1524
Name	OJ000113_12.0223.C20.o1.gs	Method	GENSCAN
Start	915	End	1524
GI	none	Score	.68
Exons	915..993, 1499..1524		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56087	Strand	+
Start	269	End	10144
Name	OJ000113_12.0223.C21.o1.gs	Method	GENSCAN
Start	269	End	10144
GI	none	Score	.84
Exons	269..336, 1538..1585, 1795..2031, 2124..2389, 4179..4292, 4455..4628, 5185..6669, 6687..6874, 7079..7179, 7289..7379, 7508..7618, 7710..7775, 8586..8645, 8724..9299, 9664..9789, 9872..9991, 10079..10144		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56087	Strand	+
Start	269	End	10144
Name	OJ000113_12.0223.C21.o1.np	Method	AAT/NAP
Start	5761	End	10003
GI	6143897	Score	1386
Exons	5761..6982, 7079..7179, 7289..7379, 7508..7618, 7710..7775, 8586..8645, 8724..9299, 9664..9803, 9889..10003		
GI Descrip.	(AC010718) putative translation initiation factor IF-2 [Arabidopsis thaliana]		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o5.tm	Method	TBLASTX:Maize
Start	6480	End	6701
GI	none	Score	234
Exons	6480..6650, 6495..6701, 6506..6658		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o1.ts	Method	TBLASTX:Soybean
Start	6716	End	8783
GI	none	Score	87

Exons 6716..6775, 6776..6988, 6778..6978, 6779..6982, 7076..7177,  
7084..7179, 7287..7406, 7287..7352, 7505..7618, 7507..7617,  
7704..7775, 7709..7774, 8580..8645, 8706..8783

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o1.tm	Method	TBLASTX:Maize
Start	6784	End	9991
GI	none	Score	228
Exons	6784..6978, 6785..6988, 6785..6991, 7076..7177, 7079..7177, 7286..7324, 7287..7406, 7340..7375, 7466..7618, 7477..7617, 7704..7775, 8580..8645, 8585..8641, 8712..8783, 8713..8745, 8777..9259, 8781..9266, 8850..9302, 8870..9316, 9869..9991		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o1.tw	Method	TBLASTX:Wheat
Start	6793	End	7585
GI	none	Score	210
Exons	6793..6978, 6794..6988, 7076..7177, 7079..7177, 7081..7179, 7286..7375, 7287..7406, 7466..7585, 7477..7581		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o3.tc	Method	TBLASTX:Cress
Start	6802	End	7177
GI	none	Score	171
Exons	6802..6975, 6803..6988, 7070..7138, 7073..7177		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o2.tw	Method	TBLASTX:Wheat
Start	8946	End	9266
GI	none	Score	198
Exons	8946..9134, 8948..9127, 8952..9134, 9137..9259, 9138..9266		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o3.ts	Method	TBLASTX:Soybean
Start	9044	End	9293
GI	none	Score	195
Exons	9044..9259, 9045..9266, 9045..9293		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o2.tc	Method	TBLASTX:Cress
Start	10386	End	10933
GI	none	Score	121
Exons	10386..10541, 10387..10545, 10409..10546, 10647..10760, 10648..10761, 10654..10761, 10682..10930, 10718..10933		



Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o2.ts	Method	TBLASTX:Soybean
Start	10386	End	12451
GI	none	Score	145
Exons	10386..10541, 10387..10539, 10434..10541, 10647..10763, 10648..10773, 10650..10832, 10718..11026, 10890..11024, 11119..11184, 11462..11605, 11493..11606, 11693..11839, 11694..11837, 12200..12451, 12205..12450		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o2.np	Method	AAT/NAP
Start	10389	End	12402
GI	4335747	Score	1184
Exons	10389..10538, 10649..11023, 11122..11228, 11415..11604, 11698..11836, 12205..12402		
GI Descrip.	(AC006284) putative integral membrane protein [Arabidopsis thaliana]		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o2.gs	Method	GENSCAN
Start	10393	End	12441
GI	none	Score	.69
Exons	10393..10521, 10549..10632, 10649..11023, 11122..11228, 11386..11604, 11698..11836, 12256..12441		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o4.tm	Method	TBLASTX:Maize
Start	10769	End	11175
GI	none	Score	144
Exons	10769..11023, 10769..11026, 10890..11024, 11119..11175		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o2.tm	Method	TBLASTX:Maize
Start	11441	End	11860
GI	none	Score	140
Exons	11441..11605, 11466..11606, 11493..11606, 11693..11860, 11694..11834		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o4.tc	Method	TBLASTX:Cress
Start	11564	End	11839
GI	none	Score	37
Exons	11564..11605, 11565..11606, 11693..11839, 11694..11837		

Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
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Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.ol.tc	Method	TBLASTX:Cress
Start	12194	End	12441
GI	none	Score	141
Exons	12194..12436, 12202..12441		
Seq. No.	27053	Seq. ID	OJ000113_12.0223.C21
Gene No.	56088	Strand	-
Start	10393	End	12451
Name	OJ000113_12.0223.C21.o3.tm	Method	TBLASTX:Maize
Start	12205	End	12442
GI	none	Score	105
Exons	12205..12372, 12205..12441, 12218..12442		
Seq. No.	27054	Seq. ID	OJ000113_12.0223.C23
Gene No.	56089	Strand	+
Start	967	End	1566
Name	OJ000113_12.0223.C23.ol.gs	Method	GENSCAN
Start	967	End	1566
GI	none	Score	.52
Exons	967..1075, 1544..1566		
Seq. No.	27054	Seq. ID	OJ000113_12.0223.C23
Gene No.	56090	Strand	-
Start	1777	End	2319
Name	OJ000113_12.0223.C23.o2.gs	Method	GENSCAN
Start	1777	End	2319
GI	none	Score	.63
Exons	1777..1887, 2278..2319		
Seq. No.	27055	Seq. ID	OJ000113_12.0223.C24
Gene No.	56091	Strand	+
Start	4508	End	5031
Name	OJ000113_12.0223.C24.ol.gp	Method	AAT/GAP
Start	4508	End	5031
GI	LIB3434-038-P1-K1-F1	Score	744
Exons	4508..5031		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	27055	Seq. ID	OJ000113_12.0223.C24
Gene No.	56092	Strand	-
Start	926	End	5570
Name	OJ000113_12.0223.C24.ol.gs	Method	GENSCAN
Start	926	End	5570
GI	none	Score	.62
Exons	926..1045, 2234..2482, 2490..2653, 2926..3022, 4328..4411, 5525..5570		
Seq. No.	27056	Seq. ID	OJ000113_12.0223.C25
Gene No.	56093	Strand	+
Start	1169	End	1656
Name	OJ000113_12.0223.C25.ol.np	Method	AAT/NAP
Start	1169	End	1656
GI	6907090	Score	142
Exons	1169..1561, 1629..1656		

GI Descrip. (AP001129) Similar to Oryza sativa root-specific RCc3 mRNA.  
(L27208)

Seq. No.	27056	Seq. ID	OJ000113_12.0223.C25
Gene No.	56094	Strand	-
Start	1158	End	1439
Name	OJ000113_12.0223.C25.o1.gs	Method	GENSCAN
Start	1158	End	1439
GI	none	Score	.61
Exons	1158..1439		

Seq. No.	27057	Seq. ID	OJ000113_12.0223.C26
Gene No.	56095	Strand	-
Start	1722	End	3222
Name	OJ000113_12.0223.C26.o1.np	Method	AAT/NAP
Start	1722	End	3222
GI	4432837	Score	95
Exons	1722..2056, 3161..3222		
GI Descrip.	(AC006283) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27058	Seq. ID	OJ000113_12.0223.C27
Gene No.	56096	Strand	+
Start	1138	End	2733
Name	OJ000113_12.0223.C27.o1.np	Method	AAT/NAP
Start	1138	End	2733
GI	4388818	Score	719
Exons	1138..2733		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	27058	Seq. ID	OJ000113_12.0223.C27
Gene No.	56096	Strand	+
Start	1138	End	2733
Name	OJ000113_12.0223.C27.o1.tw	Method	TBLASTX:Wheat
Start	1456	End	1860
GI	none	Score	120
Exons	1456..1599, 1478..1600, 1479..1616, 1585..1758, 1602..1718, 1645..1860		

Seq. No.	27059	Seq. ID	OJ000113_12.0223.C28
Gene No.	56097	Strand	+
Start	1	End	2427
Name	OJ000113_12.0223.C28.o1.np	Method	AAT/NAP
Start	1	End	2346
GI	4388818	Score	1845
Exons	1..2346		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	27059	Seq. ID	OJ000113_12.0223.C28
Gene No.	56097	Strand	+
Start	1	End	2427
Name	OJ000113_12.0223.C28.o3.tw	Method	TBLASTX:Wheat
Start	1	End	447
GI	none	Score	185
Exons	1..234, 3..233, 253..324, 343..447		

Seq. No. 27059  
Gene No. 56097  
Start 1  
Name OJ000113\_12.0223.C28.o3.tm  
Start 1  
GI none  
Exons 1..324, 3..146, 340..405

Seq. ID OJ000113\_12.0223.C28  
Strand +  
End 2427  
Method TBLASTX:Maize  
End 405  
Score 297

Seq. No. 27059  
Gene No. 56097  
Start 1  
Name OJ000113\_12.0223.C28.o2.ts  
Start 16  
GI none  
Exons 16..345, 45..155, 174..344, 330..467, 331..468

Seq. ID OJ000113\_12.0223.C28  
Strand +  
End 2427  
Method TBLASTX:Soybean  
End 468  
Score 262

Seq. No. 27059  
Gene No. 56097  
Start 1  
Name OJ000113\_12.0223.C28.o1.tc  
Start 49  
GI none  
Exons 49..327, 343..510, 345..512

Seq. ID OJ000113\_12.0223.C28  
Strand +  
End 2427  
Method TBLASTX:Cress  
End 512  
Score 172

Seq. No. 27059  
Gene No. 56097  
Start 1  
Name OJ000113\_12.0223.C28.o2.tw  
Start 717  
GI none  
Exons 717..977, 727..978

Seq. ID OJ000113\_12.0223.C28  
Strand +  
End 2427  
Method TBLASTX:Wheat  
End 978  
Score 283

Seq. No. 27059  
Gene No. 56097  
Start 1  
Name OJ000113\_12.0223.C28.o2.tc  
Start 985  
GI none  
Exons 985..1191, 990..1157

Seq. ID OJ000113\_12.0223.C28  
Strand +  
End 2427  
Method TBLASTX:Cress  
End 1191  
Score 185

Seq. No. 27059  
Gene No. 56097  
Start 1  
Name OJ000113\_12.0223.C28.o2.tm  
Start 987  
GI none  
Exons 987..1280, 991..1422

Seq. ID OJ000113\_12.0223.C28  
Strand +  
End 2427  
Method TBLASTX:Maize  
End 1422  
Score 314

Seq. No. 27059  
Gene No. 56097  
Start 1  
Name OJ000113\_12.0223.C28.o1.tw  
Start 988  
GI none  
Exons 988..1317, 990..1301, 1333..1659, 1674..1766

Seq. ID OJ000113\_12.0223.C28  
Strand +  
End 2427  
Method TBLASTX:Wheat  
End 1766  
Score 324

Seq. No. 27059

Seq. ID OJ000113\_12.0223.C28

Gene No.	56097	Strand	+
Start	1	End	2427
Name	OJ000113_12.0223.C28.o1.ts	Method	TBLASTX:Soybean
Start	1009	End	1398
GI	none	Score	384
Exons	1009..1398, 1020..1301, 1030..1350		

Seq. No.	27059	Seq. ID	OJ000113_12.0223.C28
Gene No.	56097	Strand	+
Start	1	End	2427
Name	OJ000113_12.0223.C28.o4.tm	Method	TBLASTX:Maize
Start	1453	End	1864
GI	none	Score	93
Exons	1453..1578, 1540..1656, 1554..1664, 1667..1846, 1668..1856, 1670..1864		

Seq. No.	27059	Seq. ID	OJ000113_12.0223.C28
Gene No.	56097	Strand	+
Start	1	End	2427
Name	OJ000113_12.0223.C28.o3.ts	Method	TBLASTX:Soybean
Start	1728	End	2287
GI	none	Score	103
Exons	1728..1841, 1909..1989, 1996..2118, 2018..2095, 2114..2287, 2173..2217		

Seq. No.	27059	Seq. ID	OJ000113_12.0223.C28
Gene No.	56097	Strand	+
Start	1	End	2427
Name	OJ000113_12.0223.C28.o1.tm	Method	TBLASTX:Maize
Start	1915	End	2340
GI	none	Score	101
Exons	1915..1989, 1916..1984, 1994..2284, 1996..2307, 2005..2040, 2018..2287, 2068..2289, 2286..2336, 2287..2340, 2287..2334, 2298..2339		

Seq. No.	27059	Seq. ID	OJ000113_12.0223.C28
Gene No.	56097	Strand	+
Start	1	End	2427
Name	OJ000113_12.0223.C28.o4.tw	Method	TBLASTX:Wheat
Start	1921	End	2289
GI	none	Score	52
Exons	1921..1983, 1945..2013, 2018..2095, 2113..2289, 2114..2287		

Seq. No.	27059	Seq. ID	OJ000113_12.0223.C28
Gene No.	56097	Strand	+
Start	1	End	2427
Name	OJ000113_12.0223.C28.o1.gp	Method	AAT/GAP
Start	2120	End	2427
GI	LIB3434-028-P1-K1-F5	Score	506
Exons	2120..2427		
GI Descrip.	'320569/pir E60767 1.0e-17 transposon TNTI - Arabidopsis thaliana (fragment)'		

Seq. No.	27060	Seq. ID	OJ000113_12.0223.C29
Gene No.	56098	Strand	+
Start	1683	End	2157
Name	OJ000113_12.0223.C29.o1.gs	Method	GENSCAN

Start 1683  
GI none  
Exons 1683..1783, 2067..2157

End 2157  
Score .83

Seq. No. 27060  
Gene No. 56099  
Start 3056  
Name OJ000113\_12.0223.C29.o2.gs  
Start 3056  
GI none  
Exons 3056..3075, 3331..3501, 3913..4054, 4140..4334, 4432..4641, 4885..5081, 5145..5513, 5783..6038, 6130..6391, 6496..6746

Seq. ID OJ000113\_12.0223.C29  
Strand -  
End 6746  
Method GENSCAN  
End 6746  
Score .65

Seq. No. 27060  
Gene No. 56100  
Start 6777  
Name OJ000113\_12.0223.C29.o1.np  
Start 6777  
GI 5441880  
Exons 6777..7793  
GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. ID OJ000113\_12.0223.C29  
Strand -  
End 8261  
Method AAT/NAP  
End 7793  
Score 1151

Seq. No. 27060  
Gene No. 56100  
Start 6777  
Name OJ000113\_12.0223.C29.o3.gs  
Start 7671  
GI none  
Exons 7671..8261

Seq. ID OJ000113\_12.0223.C29  
Strand -  
End 8261  
Method GENSCAN  
End 8261  
Score .49

Seq. No. 27060  
Gene No. 56101  
Start 8998  
Name OJ000113\_12.0223.C29.o2.tm  
Start 760  
GI none  
Exons 760..801, 875..1102, 1120..1191

Seq. ID OJ000113\_12.0223.C29  
Strand -  
End 9585  
Method TBLASTX:Maize  
End 1191  
Score 65

Seq. No. 27060  
Gene No. 56101  
Start 8998  
Name OJ000113\_12.0223.C29.o1.tm  
Start 6751  
GI none  
Exons 6751..6861, 6762..6860, 6864..7070, 6866..7228, 7110..7223

Seq. ID OJ000113\_12.0223.C29  
Strand -  
End 9585  
Method TBLASTX:Maize  
End 7228  
Score 57

Seq. No. 27060  
Gene No. 56101  
Start 8998  
Name OJ000113\_12.0223.C29.o4.gs  
Start 8998  
GI none  
Exons 8998..9243, 9434..9585

Seq. ID OJ000113\_12.0223.C29  
Strand -  
End 9585  
Method GENSCAN  
End 9585  
Score .69

Seq. No. 27061  
Seq. ID OJ000113\_12.0223.C30

Gene No.	56102	Strand	+
Start	2312	End	4287
Name	OJ000113_12.0223.C30.o1.gs	Method	GENSCAN
Start	2312	End	4287
GI	none	Score	.42
Exons	2312..2403, 2744..2921, 3678..3848, 4127..4287		

Seq. No.	27062	Seq. ID	OJ000113_12.0223.C31
Gene No.	56103	Strand	-
Start	1	End	134
Name	OJ000113_12.0223.C31.o1.gp	Method	AAT/GAP
Start	1	End	134
GI	jC-osleLIB3474037g11a1	Score	268
Exons	1..134		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	27063	Seq. ID	OJ000113_12.0223.C33
Gene No.	56104	Strand	+
Start	1	End	505
Name	OJ000113_12.0223.C33.o1.np	Method	AAT/NAP
Start	1	End	505
GI	6686396	Score	360
Exons	1..505		
GI Descrip.	(AC007234) F1E22.10 [Arabidopsis thaliana]		

Seq. No.	27063	Seq. ID	OJ000113_12.0223.C33
Gene No.	56104	Strand	+
Start	1	End	505
Name	OJ000113_12.0223.C33.o1.gs	Method	GENSCAN
Start	40	End	494
GI	none	Score	.68
Exons	40..494		

Seq. No.	27063	Seq. ID	OJ000113_12.0223.C33
Gene No.	56104	Strand	+
Start	1	End	505
Name	OJ000113_12.0223.C33.o1.tm	Method	TBLASTX:Maize
Start	40	End	492
GI	none	Score	59
Exons	40..105, 150..284, 154..492, 372..491		

Seq. No.	27063	Seq. ID	OJ000113_12.0223.C33
Gene No.	56104	Strand	+
Start	1	End	505
Name	OJ000113_12.0223.C33.o1.ts	Method	TBLASTX:Soybean
Start	124	End	504
GI	none	Score	137
Exons	124..294, 352..504, 354..503		

Seq. No.	27064	Seq. ID	OJ000113_12.0223.C35
Gene No.	56105	Strand	+
Start	373	End	604
Name	OJ000113_12.0223.C35.o1.gs	Method	GENSCAN
Start	373	End	604
GI	none	Score	.55
Exons	373..461, 492..604		

Seq. No. 27065 Seq. ID OJ000113\_12.0223.C38  
Gene No. 56106 Strand -  
Start 621 End 1131  
Name OJ000113\_12.0223.C38.o1.gp Method AAT/GAP  
Start 621 End 1131  
GI 38782\_1.R1084 Score 772  
Exons 621..1131  
GI Descrip. '6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic  
DNA, chromosome 6, clone:P0514G12'

Seq. No. 27066 Seq. ID OJ000113\_12.0223.C40  
Gene No. 56107 Strand +  
Start 1 End 628  
Name OJ000113\_12.0223.C40.o1.np Method AAT/NAP  
Start 1 End 628  
GI 4887756 Score 75  
Exons 1..34, 422..628  
GI Descrip. (AC006533) putative protein kinase [Arabidopsis thaliana]

Seq. No. 27066 Seq. ID OJ000113\_12.0223.C40  
Gene No. 56107 Strand +  
Start 1 End 628  
Name OJ000113\_12.0223.C40.o1.gs Method GENSCAN  
Start 82 End 600  
GI none Score .55  
Exons 82..99, 382..600

Seq. No. 27067 Seq. ID OJ000113\_12.0223.C42  
Gene No. 56108 Strand +  
Start 5476 End 7250  
Name OJ000113\_12.0223.C42.o1.np Method AAT/NAP  
Start 5476 End 7026  
GI 1084415 Score 386  
Exons 5476..5584, 5684..5752, 5832..5938, 6538..6957, 6991..7026  
GI Descrip. RNA-binding protein - Wood tobacco gi|624925|dbj|BAA05170|  
(D26182) RNA-binding glycine rich protein (RGP-2) [Nicotiana  
sylvestris]

Seq. No. 27067 Seq. ID OJ000113\_12.0223.C42  
Gene No. 56108 Strand +  
Start 5476 End 7250  
Name OJ000113\_12.0223.C42.o2.gs Method GENSCAN  
Start 5476 End 7029  
GI none Score .93  
Exons 5476..5584, 5832..5938, 6538..7029

Seq. No. 27067 Seq. ID OJ000113\_12.0223.C42  
Gene No. 56108 Strand +  
Start 5476 End 7250  
Name OJ000113\_12.0223.C42.o1.gp Method AAT/GAP  
Start 5498 End 6702  
GI 59184\_1.R1084 Score 759  
Exons 5498..5584, 5684..5752, 5832..5938, 6538..6702  
GI Descrip. '1084415/pir||S46286 5.0e-28 RNA-binding protein - Wood tobacco  
>gi\_624925\_dbj\_BAA05170\_ (D26182) RNA-binding glycine rich  
protein (RGP-2) [Nicotiana sylvestris]'



Seq. No.	27067	Seq. ID	OJ000113_12.0223.C42
Gene No.	56108	Strand	+
Start	5476	End	7250
Name	OJ000113_12.0223.C42.o2.gp	Method	AAT/GAP
Start	6815	End	7250
GI	uC-osflcyp176c02b1	Score	864
Exons	6815..7250		
GI Descrip.	'619085/emb Z47172 CSPAG13 3.0e-11 Calothrix D253 genomic DNA (clone AG13)'		

Seq. No.	27067	Seq. ID	OJ000113_12.0223.C42
Gene No.	56109	Strand	-
Start	635	End	4008
Name	OJ000113_12.0223.C42.o1.gs	Method	GENSCAN
Start	635	End	4008
GI	none	Score	.91
Exons	635..768, 862..1018, 1995..2007, 3686..4008		

Seq. No.	27067	Seq. ID	OJ000113_12.0223.C42
Gene No.	56110	Strand	-
Start	8005	End	8031
Name	OJ000113_12.0223.C42.o1.tm	Method	TBLASTX:Maize
Start	609	End	3904
GI	none	Score	202
Exons	609..773, 628..774, 635..772, 812..1018, 853..1023, 855..890, 856..1017, 965..1021, 3772..3903, 3776..3904		

Seq. No.	27067	Seq. ID	OJ000113_12.0223.C42
Gene No.	56110	Strand	-
Start	8005	End	8031
Name	OJ000113_12.0223.C42.o1.tw	Method	TBLASTX:Wheat
Start	659	End	3903
GI	none	Score	57
Exons	659..697, 660..698, 695..772, 696..773, 700..774, 862..1020, 862..1020, 959..1021, 3772..3903, 3779..3901		

Seq. No.	27067	Seq. ID	OJ000113_12.0223.C42
Gene No.	56110	Strand	-
Start	8005	End	8031
Name	OJ000113_12.0223.C42.o2.tm	Method	TBLASTX:Maize
Start	5466	End	7128
GI	none	Score	109
Exons	5466..5585, 5466..5585, 5470..5589, 5668..5754, 5682..5750, 5683..5766, 5826..5939, 5830..5937, 5831..5944, 6540..6596, 6541..6585, 6784..6951, 6814..6873, 6958..7035, 7102..7128		

Seq. No.	27067	Seq. ID	OJ000113_12.0223.C42
Gene No.	56110	Strand	-
Start	8005	End	8031
Name	OJ000113_12.0223.C42.o1.ts	Method	TBLASTX:Soybean
Start	5470	End	5943
GI	none	Score	84
Exons	5470..5589, 5470..5511, 5547..5585, 5682..5744, 5682..5756, 5683..5751, 5833..5940, 5834..5938, 5851..5943		

Seq. No.	27067	Seq. ID	OJ000113_12.0223.C42
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Gene No. 56110  
 Start 8005  
 Name OJ000113\_12.0223.C42.o3.gs  
 Start 8005  
 GI none  
 Exons 8005..8031

Strand -  
 End 8031  
 Method GENSCAN  
 End 8031  
 Score .58

Seq. No. 27068  
 Gene No. 56111  
 Start 2087  
 Name OJ000113\_12.0223.C44.o1.gp  
 Start 1797  
 GI 2311865  
 Exons 1797..2055

Seq. ID OJ000113\_12.0223.C44  
 Strand -  
 End 5722  
 Method AAT/GAP  
 End 2055  
 Score 482

Seq. No. 27068  
 Gene No. 56111  
 Start 2087  
 Name OJ000113\_12.0223.C44.o2.tm  
 Start 2085  
 GI none  
 Exons 2085..2144, 2087..2146, 2240..2374, 2241..2375, 2241..2375, 2242..2379, 2441..2536, 2462..2536, 2463..2537, 2464..2538

Seq. ID OJ000113\_12.0223.C44  
 Strand -  
 End 5722  
 Method TBLASTX:Maize  
 End 2538  
 Score 74

Seq. No. 27068  
 Gene No. 56111  
 Start 2087  
 Name OJ000113\_12.0223.C44.o1.gs  
 Start 2087  
 GI none  
 Exons 2087..2143, 2240..2374, 2709..2742, 2842..2918, 3018..3093, 3287..3420, 4267..4373, 5000..5303, 5408..5713

Seq. ID OJ000113\_12.0223.C44  
 Strand -  
 End 5722  
 Method GENSCAN  
 End 5713  
 Score .9

Seq. No. 27068  
 Gene No. 56111  
 Start 2087  
 Name OJ000113\_12.0223.C44.o1.tc  
 Start 2090  
 GI none  
 Exons 2090..2146, 2240..2374, 2241..2321, 2463..2618, 2467..2613, 2706..2750, 2835..2918, 2841..2918, 3013..3093, 3015..3092, 3275..3457, 3286..3456, 3978..4076, 3978..4079, 4264..4359

Seq. ID OJ000113\_12.0223.C44  
 Strand -  
 End 5722  
 Method TBLASTX:Cress  
 End 4359  
 Score 69

Seq. No. 27068  
 Gene No. 56111  
 Start 2087  
 Name OJ000113\_12.0223.C44.o1.np  
 Start 2093  
 GI 5420276  
 Exons 2093..2143, 2240..2374, 2463..2637, 2833..2918, 3018..3093, 3287..3420, 3981..4073, 4267..4368, 4998..5303, 5405..5662  
 GI Descrip. (AJ243452) cyclin A2 [Lycopersicon esculentum]

Seq. ID OJ000113\_12.0223.C44  
 Strand -  
 End 5722  
 Method AAT/NAP  
 End 5662  
 Score 861

Seq. No. 27068  
 Gene No. 56111  
 Start 2087  
 Name OJ000113\_12.0223.C44.o1.ts

Seq. ID OJ000113\_12.0223.C44  
 Strand -  
 End 5722  
 Method TBLASTX:Soybean

Start	2120	End	4374
GI	none	Score	110
Exons	2120..2146, 2240..2374, 2241..2375, 2241..2375, 2462..2545, 2463..2618, 2464..2589, 2567..2641, 2715..2750, 2835..2918, 2836..2919, 2840..2920, 2841..2921, 3012..3092, 3013..3093, 3014..3091, 3015..3092, 3269..3421, 3286..3423, 3292..3423, 3978..4052, 3978..4079, 3979..4068, 4264..4374		

Seq. No.	27068	Seq. ID	OJ000113_12.0223.C44
Gene No.	56111	Strand	-
Start	2087	End	5722
Name	OJ000113_12.0223.C44.o1.tw	Method	TBLASTX:Wheat
Start	2303	End	2615
GI	none	Score	67
Exons	2303..2374, 2304..2375, 2304..2375, 2305..2379, 2455..2610, 2456..2614, 2463..2615		

Seq. No.	27068	Seq. ID	OJ000113_12.0223.C44
Gene No.	56111	Strand	-
Start	2087	End	5722
Name	OJ000113_12.0223.C44.o3.tm	Method	TBLASTX:Maize
Start	2840	End	5143
GI	none	Score	85
Exons	2840..2920, 2841..2924, 2841..2924, 2985..3092, 3011..3091, 3021..3092, 3022..3093, 3023..3094, 3269..3421, 3282..3422, 3286..3423, 3286..3423, 3974..4081, 3978..4076, 3978..4088, 3979..4080, 4264..4374, 4265..4375, 4963..5142, 4998..5138, 5009..5143		

Seq. No.	27068	Seq. ID	OJ000113_12.0223.C44
Gene No.	56111	Strand	-
Start	2087	End	5722
Name	OJ000113_12.0223.C44.o2.np	Method	AAT/NAP
Start	3247	End	5662
GI	5420276	Score	380
Exons	3247..3420, 3981..4073, 4267..4368, 4998..5303, 5405..5662		
GI Descrip.	(AJ243452) cyclin A2 [Lycopersicon esculentum]		

Seq. No.	27068	Seq. ID	OJ000113_12.0223.C44
Gene No.	56111	Strand	-
Start	2087	End	5722
Name	OJ000113_12.0223.C44.o1.tm	Method	TBLASTX:Maize
Start	5188	End	5722
GI	none	Score	73
Exons	5188..5265, 5395..5712, 5408..5497, 5408..5722, 5430..5702, 5602..5721		

Seq. No.	27069	Seq. ID	OJ000113_12.0223.C45
Gene No.	56112	Strand	+
Start	367	End	431
Name	OJ000113_12.0223.C45.o1.gs	Method	GENSCAN
Start	367	End	431
GI	none	Score	.83
Exons	367..431		

Seq. No.	27069	Seq. ID	OJ000113_12.0223.C45
Gene No.	56113	Strand	-

Start	1	End	264
Name	OJ000113_12.0223.C45.o1.np	Method	AAT/NAP
Start	1	End	264
GI	5668598	Score	69
Exons	1..264		
GI Descrip.	(AF106062) Wiskott-Aldrich syndrome protein interacting protein [Homo sapiens]		

Seq. No.	27070	Seq. ID	OJ000203_01.0222.C1
Gene No.	56114	Strand	-
Start	213	End	394
Name	OJ000203_01.0222.C1.o1.gs	Method	GENSCAN
Start	213	End	394
GI	none	Score	.48
Exons	213..394		

Seq. No.	27071	Seq. ID	OJ000203_01.0222.C3
Gene No.	56115	Strand	+
Start	103	End	3456
Name	OJ000203_01.0222.C3.o1.np	Method	AAT/NAP
Start	103	End	3456
GI	6907042	Score	138
Exons	103..144, 3171..3456		
GI Descrip.	(AF193556) sacsin [Homo sapiens]		

Seq. No.	27071	Seq. ID	OJ000203_01.0222.C3
Gene No.	56115	Strand	+
Start	103	End	3456
Name	OJ000203_01.0222.C3.o1.gs	Method	GENSCAN
Start	210	End	516
GI	none	Score	.77
Exons	210..390, 409..516		

Seq. No.	27072	Seq. ID	OJ000203_01.0222.C4
Gene No.	56116	Strand	-
Start	305	End	469
Name	OJ000203_01.0222.C4.o1.gs	Method	GENSCAN
Start	305	End	469
GI	none	Score	.53
Exons	305..469		

Seq. No.	27073	Seq. ID	OJ000203_01.0222.C5
Gene No.	56117	Strand	+
Start	116	End	266
Name	OJ000203_01.0222.C5.o1.gp	Method	AAT/GAP
Start	116	End	266
GI	94783 1.R1084	Score	302
Exons	116..266		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	27074	Seq. ID	OJ000203_01.0222.C13
Gene No.	56118	Strand	-
Start	1	End	341
Name	OJ000203_01.0222.C13.o1.np	Method	AAT/NAP
Start	1	End	321
GI	4835766	Score	163

Exons 1..39, 146..321  
 GI Descrip. (AC007202) Contains similarity to gb|AB017693 transfactor (WERBP-1) from Nicotiana tabacum. ESTs gb|H39299, gb|T41875, gb|H38232 and gb|N38325 come from this gene. [Arabidopsis thaliana]

Seq. No.	27074	Seq. ID	OJ000203_01.0222.C13
Gene No.	56118	Strand	-
Start	1	End	341
Name	OJ000203_01.0222.C13.o1.tc	Method	TBLASTX:Cress
Start	141	End	285
GI	none	Score	93
Exons	141..260, 145..285, 147..260		

Seq. No.	27074	Seq. ID	OJ000203_01.0222.C13
Gene No.	56118	Strand	-
Start	1	End	341
Name	OJ000203_01.0222.C13.o1.ts	Method	TBLASTX:Soybean
Start	145	End	270
GI	none	Score	191
Exons	145..270, 147..269		

Seq. No.	27074	Seq. ID	OJ000203_01.0222.C13
Gene No.	56118	Strand	-
Start	1	End	341
Name	OJ000203_01.0222.C13.o1.gs	Method	GENSCAN
Start	146	End	341
GI	none	Score	.78
Exons	146..341		

Seq. No.	27075	Seq. ID	OJ000203_01.0222.C15
Gene No.	56119	Strand	-
Start	1	End	234
Name	OJ000203_01.0222.C15.o1.tm	Method	TBLASTX:Maize
Start	1	End	234
GI	none	Score	87
Exons	1..231, 1..234		

Seq. No.	27076	Seq. ID	OJ000203_01.0222.C17
Gene No.	56120	Strand	+
Start	17	End	295
Name	OJ000203_01.0222.C17.o1.gs	Method	GENSCAN
Start	17	End	295
GI	none	Score	.96
Exons	17..63, 238..295		

Seq. No.	27077	Seq. ID	OJ000203_01.0222.C20
Gene No.	56121	Strand	-
Start	1	End	550
Name	OJ000203_01.0222.C20.o1.np	Method	AAT/NAP
Start	1	End	550
GI	4760370	Score	107
Exons	1..27, 209..550		

GI Descrip. (AF082565) ATP dependent copper transporter [Arabidopsis thaliana] gi|4760380|gb|AAD29115.1| (AF091112) ATP dependent copper transporter [Arabidopsis thaliana] gi|6850337|gb|AAC79141.2| (AC002342) ATP dependent copper

transporter (RAN1) [Arabidopsis thaliana]

Seq. No.	27077	Seq. ID	OJ000203_01.0222.C20
Gene No.	56121	Strand	-
Start	1	End	550
Name	OJ000203_01.0222.C20.o1.gs	Method	GENSCAN
Start	236	End	538
GI	none	Score	.98
Exons	236..538		

Seq. No.	27078	Seq. ID	OJ000203_01.0222.C21
Gene No.	56122	Strand	+
Start	1	End	117
Name	OJ000203_01.0222.C21.o1.gp	Method	AAT/GAP
Start	1	End	117
GI	1270_1.R1084	Score	230
Exons	1..117		
GI Descrip.	'1362147/pir  S56690 2.0e-17 hypothetical protein (clone AFD1) - wild oat (fragment) >gi_726471 (U19996) putative ORF1 [Avena fatua]'		

Seq. No.	27078	Seq. ID	OJ000203_01.0222.C21
Gene No.	56123	Strand	-
Start	1	End	310
Name	OJ000203_01.0222.C21.o1.np	Method	AAT/NAP
Start	1	End	310
GI	2660676	Score	312
Exons	1..310		
GI Descrip.	(AC002342) Dreg-2 like protein [Arabidopsis thaliana]		

Seq. No.	27078	Seq. ID	OJ000203_01.0222.C21
Gene No.	56123	Strand	-
Start	1	End	310
Name	OJ000203_01.0222.C21.o1.tm	Method	TBLASTX:Maize
Start	1	End	275
GI	none	Score	371
Exons	1..264, 3..275, 3..272		

Seq. No.	27078	Seq. ID	OJ000203_01.0222.C21
Gene No.	56123	Strand	-
Start	1	End	310
Name	OJ000203_01.0222.C21.o1.gs	Method	GENSCAN
Start	15	End	266
GI	none	Score	1
Exons	15..266		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56124	Strand	+
Start	1803	End	2970
Name	OJ000203_01.0222.C23.o1.np	Method	AAT/NAP
Start	1803	End	2970
GI	6907106	Score	413
Exons	1803..2047, 2347..2970		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
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Gene No.	56124	Strand	+
Start	1803	End	2970
Name	OJ000203_01.0222.C23.o1.gp	Method	AAT/GAP
Start	1846	End	2281
GI	2428128	Score	752
Exons	1846..2281		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56125	Strand	+
Start	2874	End	3310
Name	OJ000203_01.0222.C23.o2.gp	Method	AAT/GAP
Start	2874	End	3310
GI	6547_4.R1084	Score	800
Exons	2874..3310		
GI Descrip.	'3402817/emb CAA07704  1.0e-18 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56126	Strand	+
Start	8364	End	10546
Name	OJ000203_01.0222.C23.o3.gp	Method	AAT/GAP
Start	8364	End	9185
GI	3548954	Score	654
Exons	8364..8536, 9001..9185		
GI Descrip.	4406761/gb AAD20072  7.0e-17 (AC006836) putative ubiquinone biosynthesis protein [Arabidopsis thaliana]		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56126	Strand	+
Start	8364	End	10546
Name	OJ000203_01.0222.C23.o3.np	Method	AAT/NAP
Start	8999	End	10230
GI	4406761	Score	924
Exons	8999..9184, 9739..10230		
GI Descrip.	(AC006836) putative ubiquinone biosynthesis protein [Arabidopsis thaliana]		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56126	Strand	+
Start	8364	End	10546
Name	OJ000203_01.0222.C23.o4.gp	Method	AAT/GAP
Start	9823	End	10546
GI	32010_1.R1084	Score	1423
Exons	9823..10546		
GI Descrip.	'4406761/gb AAD20072  2.0e-42 (AC006836) putative ubiquinone biosynthesis protein [Arabidopsis thaliana]'		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56127	Strand	-
Start	5604	End	8474
Name	OJ000203_01.0222.C23.o2.gs	Method	GENSCAN
Start	5604	End	8474
GI	none	Score	.59
Exons	5604..5663, 5753..5869, 7135..7222, 7398..7447, 7620..8072, 8385..8474		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
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Gene No.	56127	Strand	-
Start	5604	End	8474
Name	OJ000203_01.0222.C23.o2.np	Method	AAT/NAP
Start	6283	End	7062
GI	6069646	Score	253
Exons	6283..6748, 6989..7062		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o1.tw	Method	TBLASTX:Wheat
Start	6385	End	6693
GI	none	Score	51
Exons	6385..6510, 6385..6519, 6493..6552, 6565..6693		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o2.tm	Method	TBLASTX:Maize
Start	6385	End	6739
GI	none	Score	46
Exons	6385..6498, 6385..6501, 6517..6735, 6523..6738, 6524..6739		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o3.ts	Method	TBLASTX:Soybean
Start	7824	End	7967
GI	none	Score	190
Exons	7824..7967		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o2.tc	Method	TBLASTX:Cress
Start	8924	End	9187
GI	none	Score	257
Exons	8924..9187, 9013..9186		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o3.tm	Method	TBLASTX:Maize
Start	8996	End	9819
GI	none	Score	288
Exons	8996..9184, 8998..9186, 9736..9819, 9737..9814, 9738..9818		

Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o2.ts	Method	TBLASTX:Soybean
Start	9002	End	9828



GI	none	Score	236
Exons	9002..9184, 9025..9186, 9028..9183, 9775..9828		
Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o3.gs	Method	GENSCAN
Start	9853	End	11653
GI	none	Score	.5
Exons	9853..9969, 10451..10488, 10699..10803, 11209..11653		
Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o1.tc	Method	TBLASTX:Cress
Start	9856	End	10221
GI	none	Score	403
Exons	9856..10218, 9940..10221, 9951..10217		
Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o1.tm	Method	TBLASTX:Maize
Start	9901	End	10241
GI	none	Score	397
Exons	9901..10239, 9906..10238, 9936..10241		
Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o1.ts	Method	TBLASTX:Soybean
Start	9984	End	10218
GI	none	Score	306
Exons	9984..10217, 9985..10218		
Seq. No.	27079	Seq. ID	OJ000203_01.0222.C23
Gene No.	56128	Strand	-
Start	9853	End	11653
Name	OJ000203_01.0222.C23.o4.np	Method	AAT/NAP
Start	10072	End	11652
GI	6224712	Score	80
Exons	10072..10108, 11241..11652		
GI Descrip.	(AF180390) non-phototropic hypocotyl 3 [Arabidopsis thaliana]		
Seq. No.	27080	Seq. ID	OJ000203_01.0222.C24
Gene No.	56129	Strand	+
Start	2	End	408
Name	OJ000203_01.0222.C24.o1.gs	Method	GENSCAN
Start	2	End	408
GI	none	Score	.92
Exons	2..23, 236..408		
Seq. No.	27080	Seq. ID	OJ000203_01.0222.C24
Gene No.	56130	Strand	-
Start	1374	End	3194
Name	OJ000203_01.0222.C24.o2.gs	Method	GENSCAN
Start	1374	End	3194

GI	none	Score	.88
Exons	1374..1499, 1869..3041, 3132..3194		
Seq. No.	27080	Seq. ID	OJ000203_01.0222.C24
Gene No.	56130	Strand	-
Start	1374	End	3194
Name	OJ000203_01.0222.C24.o1.np	Method	AAT/NAP
Start	1790	End	3002
GI	5734789	Score	763
Exons	1790..3002		
GI Descrip.	(AC007980) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27080	Seq. ID	OJ000203_01.0222.C24
Gene No.	56130	Strand	-
Start	1374	End	3194
Name	OJ000203_01.0222.C24.o1.tc	Method	TBLASTX:Cress
Start	2388	End	2940
GI	none	Score	66
Exons	2388..2495, 2422..2538, 2625..2939, 2641..2940		

Seq. No.	27080	Seq. ID	OJ000203_01.0222.C24
Gene No.	56130	Strand	-
Start	1374	End	3194
Name	OJ000203_01.0222.C24.o1.tm	Method	TBLASTX:Maize
Start	2425	End	2778
GI	none	Score	123
Exons	2425..2538, 2427..2537, 2526..2624, 2530..2625, 2619..2777, 2638..2778		

Seq. No.	27080	Seq. ID	OJ000203_01.0222.C24
Gene No.	56130	Strand	-
Start	1374	End	3194
Name	OJ000203_01.0222.C24.o1.ts	Method	TBLASTX:Soybean
Start	2763	End	2984
GI	none	Score	109
Exons	2763..2984, 2764..2949		

Seq. No.	27081	Seq. ID	OJ000203_01.0222.C25
Gene No.	56131	Strand	+
Start	1	End	2646
Name	OJ000203_01.0222.C25.o1.np	Method	AAT/NAP
Start	1	End	2086
GI	3252825	Score	210
Exons	1..135, 1580..1649, 1729..1880, 1979..2086		
GI Descrip.	(AC004382) Unknown gene product [Homo sapiens]		

Seq. No.	27081	Seq. ID	OJ000203_01.0222.C25
Gene No.	56131	Strand	+
Start	1	End	2646
Name	OJ000203_01.0222.C25.o1.gs	Method	GENSCAN
Start	305	End	2587
GI	none	Score	.74
Exons	305..440, 1090..1244, 1325..1420, 1550..1658, 1744..1880, 2546..2587		

Seq. No.	27081	Seq. ID	OJ000203_01.0222.C25
Gene No.	56131	Strand	+

Start	1	End	2646
Name	OJ000203_01.0222.C25.o1.gp	Method	AAT/GAP
Start	388	End	2646
GI	20816_1.R1084	Score	1616
Exons	388..440, 1090..1244, 1325..1420, 1499..1658, 1744..1880, 1979..2053, 2155..2336, 2522..2646		
GI Descrip.	'2293332 4.0e-28 (AF011338) unknown [Dictyostelium discoideum]'		

Seq. No.	27081	Seq. ID	OJ000203_01.0222.C25
Gene No.	56132	Strand	-
Start	3562	End	4601
Name	OJ000203_01.0222.C25.o1.tm	Method	TBLASTX:Maize
Start	314	End	2195
GI	none	Score	153
Exons	314..433, 341..442, 1025..1225, 1089..1226, 1319..1417, 1324..1428, 1335..1418, 1363..1419, 1451..1657, 1497..1661, 1742..1879, 1743..1889, 1744..1881, 1979..2065, 1981..2055, 2160..2195, 2166..2195		

Seq. No.	27081	Seq. ID	OJ000203_01.0222.C25
Gene No.	56132	Strand	-
Start	3562	End	4601
Name	OJ000203_01.0222.C25.o1.ts	Method	TBLASTX:Soybean
Start	1095	End	2193
GI	none	Score	78
Exons	1095..1229, 1498..1569, 1499..1579, 1563..1664, 1574..1660, 1737..1889, 1739..1879, 1741..1881, 1979..2065, 1981..2055, 2152..2193, 2157..2192		

Seq. No.	27081	Seq. ID	OJ000203_01.0222.C25
Gene No.	56132	Strand	-
Start	3562	End	4601
Name	OJ000203_01.0222.C25.o2.gs	Method	GENSCAN
Start	3562	End	4601
GI	none	Score	.53
Exons	3562..3685, 4270..4601		

Seq. No.	27082	Seq. ID	OJ000203_01.0222.C26
Gene No.	56133	Strand	-
Start	1008	End	1144
Name	OJ000203_01.0222.C26.o1.gs	Method	GENSCAN
Start	1008	End	1144
GI	none	Score	.44
Exons	1008..1144		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56134	Strand	-
Start	98	End	2071
Name	OJ000203_01.0222.C28.o1.gs	Method	GENSCAN
Start	98	End	2071
GI	none	Score	.9
Exons	98..366, 1954..2071		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56135	Strand	-
Start	3704	End	7300
Name	OJ000203_01.0222.C28.o2.gs	Method	GENSCAN

Start	3704	End	7300
GI	none	Score	.65
Exons	3704..4819, 4891..5080, 5327..5461, 5568..5665, 5786..5949, 6781..7300		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56135	Strand	-
Start	3704	End	7300
Name	OJ000203_01.0222.C28.o1.np	Method	AAT/NAP
Start	3716	End	7165
GI	6686396	Score	2340
Exons	3716..4819, 4891..5080, 5327..5461, 5568..5665, 5786..5949, 6781..7165		
GI Descrip.	(AC007234) F1E22.10 [Arabidopsis thaliana]		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o1.tm	Method	TBLASTX:Maize
Start	3708	End	4941
GI	none	Score	130
Exons	3708..3842, 3725..3871, 3725..4441, 3735..4352, 4442..4663, 4443..4619, 4724..4834, 4749..4820, 4888..4941		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o1.tw	Method	TBLASTX:Wheat
Start	3717	End	4138
GI	none	Score	329
Exons	3717..4133, 3725..4138		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o2.ts	Method	TBLASTX:Soybean
Start	3725	End	4663
GI	none	Score	253
Exons	3725..4009, 3735..4010, 4020..4163, 4022..4165, 4166..4663, 4167..4352, 4413..4619		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o2.tc	Method	TBLASTX:Cress
Start	3764	End	4549
GI	none	Score	166
Exons	3764..4063, 3816..4064, 4056..4184, 4058..4183, 4187..4390, 4191..4352, 4376..4549, 4413..4538		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o5.tc	Method	TBLASTX:Cress
Start	4724	End	5019
GI	none	Score	91
Exons	4724..4834, 4880..5002, 4888..5007, 4888..5019		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o4.ts	Method	TBLASTX:Soybean
Start	4743	End	7058
GI	none	Score	52
Exons	4743..4820, 4751..4822, 4888..4977, 4898..4975, 5813..5875, 5814..5963, 5894..5953, 6779..6853, 6780..6851, 6866..7054, 6867..7058		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o5.tm	Method	TBLASTX:Maize
Start	4942	End	5893
GI	none	Score	81
Exons	4942..5055, 4942..5082, 4943..5083, 5309..5458, 5311..5463, 5567..5683, 5571..5663, 5759..5893, 5760..5876		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o3.ts	Method	TBLASTX:Soybean
Start	4982	End	5812
GI	none	Score	101
Exons	4982..5083, 4984..5082, 5260..5457, 5311..5463, 5312..5458, 5567..5674, 5571..5675, 5589..5675, 5780..5812		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o4.tc	Method	TBLASTX:Cress
Start	5567	End	6947
GI	none	Score	60
Exons	5567..5674, 5567..5674, 5571..5675, 5780..5872, 5787..5870, 5891..5953, 5892..5987, 6779..6853, 6780..6851, 6863..6946, 6867..6947		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o6.tm	Method	TBLASTX:Maize
Start	5897	End	7061
GI	none	Score	85
Exons	5897..5953, 6779..6853, 6780..6851, 6866..7060, 6867..7061		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o3.gs	Method	GENSCAN
Start	8090	End	9852
GI	none	Score	.95
Exons	8090..9565, 9652..9852		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-

Start	8090	End	9866
Name	OJ000203_01.0222.C28.o5.ts	Method	TBLASTX:Soybean
Start	8123	End	8368
GI	none	Score	110
Exons	8123..8257, 8133..8249, 8294..8368, 8301..8333		
Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o4.tm	Method	TBLASTX:Maize
Start	8129	End	8666
GI	none	Score	59
Exons	8129..8197, 8130..8207, 8207..8251, 8297..8563, 8298..8525, 8513..8665, 8529..8666		
Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o2.np	Method	AAT/NAP
Start	8132	End	9852
GI	1903034	Score	1662
Exons	8132..9565, 9652..9852		
GI Descrip.	(X94625) amp-binding protein [Brassica napus]		
Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o1.tc	Method	TBLASTX:Cress
Start	8135	End	9218
GI	none	Score	70
Exons	8135..8203, 8139..8213, 8297..8356, 8328..8516, 8357..8515, 8522..9205, 8529..9218		
Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o1.ts	Method	TBLASTX:Soybean
Start	8369	End	9828
GI	none	Score	133
Exons	8369..8515, 8370..8516, 8522..9307, 8529..9248, 9413..9574, 9417..9566, 9685..9828		
Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o3.tw	Method	TBLASTX:Wheat
Start	8675	End	8885
GI	none	Score	93
Exons	8675..8884, 8681..8803, 8682..8885		
Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o3.tm	Method	TBLASTX:Maize
Start	8741	End	9289
GI	none	Score	66
Exons	8741..8884, 8742..8885, 8898..9260, 8900..9289		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o2.tw	Method	TBLASTX:Wheat
Start	9032	End	9203
GI	none	Score	247
Exons	9032..9202, 9033..9203, 9132..9203		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o2.tm	Method	TBLASTX:Maize
Start	9401	End	9866
GI	none	Score	223
Exons	9401..9604, 9413..9565, 9643..9678, 9650..9712, 9679..9852, 9680..9853, 9819..9866		

Seq. No.	27083	Seq. ID	OJ000203_01.0222.C28
Gene No.	56136	Strand	-
Start	8090	End	9866
Name	OJ000203_01.0222.C28.o3.tc	Method	TBLASTX:Cress
Start	9410	End	9852
GI	none	Score	62
Exons	9410..9538, 9413..9565, 9423..9566, 9643..9681, 9676..9852, 9680..9823		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56137	Strand	+
Start	5794	End	6538
Name	OJ000203_01.0222.C29.o2.gs	Method	GENSCAN
Start	5794	End	6538
GI	none	Score	.85
Exons	5794..5849, 6237..6276, 6323..6538		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56138	Strand	-
Start	1073	End	5280
Name	OJ000203_01.0222.C29.o1.gs	Method	GENSCAN
Start	1073	End	5280
GI	none	Score	.85
Exons	1073..1371, 1454..1996, 2450..2834, 3518..3718, 3807..4019, 4278..4739, 5203..5280		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56138	Strand	-
Start	1073	End	5280
Name	OJ000203_01.0222.C29.o1.np	Method	AAT/NAP
Start	1076	End	4487
GI	4972236	Score	1413
Exons	1076..1371, 1421..1996, 2450..2834, 3518..3718, 3807..4019, 4278..4487		
GI Descrip.	(AJ006349) endo-beta-1,4-glucanase [Fragaria x ananassa]		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226

Name	OJ000203_01.0222.C29.o2.ts	Method	TBLASTX:Soybean
Start	1064	End	2822
GI	none	Score	89
Exons	1064..1204, 1065..1205, 1202..1375, 1521..2000, 1528..1674, 1726..2001, 2448..2573, 2568..2822, 2575..2670		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o3.tc	Method	TBLASTX:Cress
Start	1085	End	1369
GI	none	Score	129
Exons	1085..1204, 1211..1369		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o2.tm	Method	TBLASTX:Maize
Start	1512	End	2627
GI	none	Score	87
Exons	1512..1682, 1522..1671, 1702..1860, 1731..1859, 1911..1964, 2577..2627		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o2.tc	Method	TBLASTX:Cress
Start	1521	End	1769
GI	none	Score	212
Exons	1521..1769, 1521..1631		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o1.tw	Method	TBLASTX:Wheat
Start	1554	End	1964
GI	none	Score	76
Exons	1554..1685, 1555..1668, 1731..1859, 1732..1863, 1911..1964		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o1.tc	Method	TBLASTX:Cress
Start	1774	End	4020
GI	none	Score	156
Exons	1774..2001, 1803..2000, 2448..2573, 2568..2651, 2575..2652, 2703..2822, 3515..3697, 3570..3719, 3804..4019, 3835..3876, 3913..4020		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o3.tm	Method	TBLASTX:Maize
Start	2628	End	2849
GI	none	Score	68
Exons	2628..2705, 2628..2822, 2629..2838, 2796..2849		



Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o1.ts	Method	TBLASTX:Soybean
Start	3515	End	4022
GI	none	Score	117
Exons	3515..3697, 3516..3719, 3804..4022, 3805..4020		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o1.tm	Method	TBLASTX:Maize
Start	3566	End	4403
GI	none	Score	125
Exons	3566..3697, 3567..3722, 3617..3730, 3693..3716, 3804..4019, 3832..4020, 4275..4403, 4291..4374		

Seq. No.	27084	Seq. ID	OJ000203_01.0222.C29
Gene No.	56139	Strand	-
Start	8011	End	8226
Name	OJ000203_01.0222.C29.o3.gs	Method	GENSCAN
Start	8011	End	8226
GI	none	Score	.97
Exons	8011..8226		

Seq. No.	27085	Seq. ID	OJ000203_01.0222.C30
Gene No.	56140	Strand	-
Start	38	End	377
Name	OJ000203_01.0222.C30.o1.gs	Method	GENSCAN
Start	38	End	377
GI	none	Score	.98
Exons	38..212, 334..377		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56141	Strand	+
Start	3786	End	4710
Name	OJ000203_01.0222.C31.o2.gs	Method	GENSCAN
Start	3786	End	4710
GI	none	Score	.78
Exons	3786..3881, 3947..4076, 4523..4710		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56142	Strand	+
Start	5265	End	5567
Name	OJ000203_01.0222.C31.o3.gs	Method	GENSCAN
Start	5265	End	5567
GI	none	Score	1
Exons	5265..5567		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56143	Strand	+
Start	6091	End	9867
Name	OJ000203_01.0222.C31.o1.gp	Method	AAT/GAP
Start	5995	End	6588
GI	30154_1.R1084	Score	933
Exons	5995..6447, 6552..6588		
GI Descrip.	'5689236/dbj BAA82873.1  2.0e-34 (AB024291) ZmRR2 [Zea mays]		

>gi\_6009897\_dbj\_BAA85113.1 (AB031012) response regulator 2 [Zea mays]

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56143	Strand	+
Start	6091	End	9867
Name	OJ000203_01.0222.C31.o4.gs	Method	GENSCAN
Start	6091	End	9867
GI	none	Score	.84
Exons	6091..6447, 6552..6662, 9445..9660, 9814..9867		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56143	Strand	+
Start	6091	End	9867
Name	OJ000203_01.0222.C31.o1.np	Method	AAT/NAP
Start	6130	End	6704
GI	5689236	Score	539
Exons	6130..6447, 6552..6704		
GI Descrip.	(AB024291) ZmRR2 [Zea mays] gi 6009897 dbj BAA85113.1  (AB031012) response regulator 2 [Zea mays]		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56144	Strand	-
Start	178	End	2648
Name	OJ000203_01.0222.C31.o1.gs	Method	GENSCAN
Start	178	End	2648
GI	none	Score	.51
Exons	178..414, 672..738, 1105..1142, 1699..1841, 2129..2288, 2625..2648		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56145	Strand	-
Start	11031	End	13283
Name	OJ000203_01.0222.C31.o5.gs	Method	GENSCAN
Start	11031	End	13283
GI	none	Score	.63
Exons	11031..11143, 11791..11910, 11942..11973, 12667..12796, 12977..13075, 13199..13283		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56146	Strand	-
Start	13861	End	14956
Name	OJ000203_01.0222.C31.o1.tc	Method	TBLASTX:Cress
Start	6226	End	6689
GI	none	Score	120
Exons	6226..6363, 6243..6362, 6369..6449, 6370..6447, 6546..6689, 6551..6676		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56146	Strand	-
Start	13861	End	14956
Name	OJ000203_01.0222.C31.o1.tm	Method	TBLASTX:Maize
Start	6234	End	6749
GI	none	Score	327
Exons	6234..6449, 6235..6447, 6546..6749, 6551..6715		

Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
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Gene No.	56146	Strand	-
Start	13861	End	14956
Name	OJ000203_01.0222.C31.o1.ts	Method	TBLASTX:Soybean
Start	6378	End	6689
GI	none	Score	101
Exons	6378..6449, 6379..6447, 6546..6689, 6551..6676		
Seq. No.	27086	Seq. ID	OJ000203_01.0222.C31
Gene No.	56146	Strand	-
Start	13861	End	14956
Name	OJ000203_01.0222.C31.o2.np	Method	AAT/NAP
Start	13861	End	14956
GI	1654005	Score	225
Exons	13861..13927, 14612..14695, 14821..14956		
GI Descrip.	(X89398) uracil-DNA-glycosylase, UNG2 [Homo sapiens] gi 1850821 emb CAA70211  (Y09008) uracil-DNA glycosylase [Homo sapiens]		
Seq. No.	27087	Seq. ID	OJ000203_01.0222.C33
Gene No.	56147	Strand	+
Start	1027	End	3866
Name	OJ000203_01.0222.C33.o1.gs	Method	GENSCAN
Start	1027	End	3705
GI	none	Score	.52
Exons	1027..1171, 2528..3705		
Seq. No.	27087	Seq. ID	OJ000203_01.0222.C33
Gene No.	56147	Strand	+
Start	1027	End	3866
Name	OJ000203_01.0222.C33.o1.gp	Method	AAT/GAP
Start	3384	End	3866
GI	none	Score	934
Exons	3384..3866		
Seq. No.	27087	Seq. ID	OJ000203_01.0222.C33
Gene No.	56148	Strand	+
Start	5978	End	7590
Name	OJ000203_01.0222.C33.o3.gs	Method	GENSCAN
Start	5978	End	6779
GI	none	Score	.87
Exons	5978..6173, 6433..6779		
Seq. No.	27087	Seq. ID	OJ000203_01.0222.C33
Gene No.	56148	Strand	+
Start	5978	End	7590
Name	OJ000203_01.0222.C33.o1.tm	Method	TBLASTX:Maize
Start	5981	End	6631
GI	none	Score	74
Exons	5981..6172, 6054..6122, 6062..6172, 6401..6631, 6435..6629		
Seq. No.	27087	Seq. ID	OJ000203_01.0222.C33
Gene No.	56148	Strand	+
Start	5978	End	7590
Name	OJ000203_01.0222.C33.o1.np	Method	AAT/NAP
Start	5990	End	7590
GI	4514716	Score	348
Exons	5990..6173, 6433..6644, 7489..7590		

GI Descrip. (AB017533) EPc [Nicotiana tabacum]

Seq. No.	27087	Seq. ID	OJ000203_01.0222.C33
Gene No.	56148	Strand	+
Start	5978	End	7590
Name	OJ000203_01.0222.C33.o1.tw	Method	TBLASTX:Wheat
Start	6014	End	6625
GI	none	Score	62
Exons	6014..6172, 6057..6119, 6062..6172, 6434..6625, 6435..6623		

Seq. No.	27087	Seq. ID	OJ000203_01.0222.C33
Gene No.	56148	Strand	+
Start	5978	End	7590
Name	OJ000203_01.0222.C33.o2.gp	Method	AAT/GAP
Start	6023	End	6746
GI	95234_1.R1084	Score	736
Exons	6023..6173, 6433..6746		
GI Descrip.	'4514716/dbj BAA75495.1  1.0e-16 (AB017533) EPc [Nicotiana tabacum]'		

Seq. No.	27088	Seq. ID	OJ000203_01.0222.C34
Gene No.	56149	Strand	-
Start	113	End	455
Name	OJ000203_01.0222.C34.o1.gp	Method	AAT/GAP
Start	113	End	455
GI	uC-osroM202035e08b1	Score	389
Exons	113..238, 363..455		
GI Descrip.	'5103809/gb AAD39639.1 AC007591_4 7.0e-45 (AC007591) Similar to gb_AF099053 phosphatidylserine synthase-2 from Mus musculus. EST gb_N96271 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	27088	Seq. ID	OJ000203_01.0222.C34
Gene No.	56149	Strand	-
Start	113	End	455
Name	OJ000203_01.0222.C34.o1.tm	Method	TBLASTX:Maize
Start	141	End	454
GI	none	Score	98
Exons	141..239, 141..236, 142..279, 142..243, 361..453, 362..454		

Seq. No.	27089	Seq. ID	OJ000150_31.0124.C1
Gene No.	56150	Strand	-
Start	660	End	1226
Name	OJ000150_31.0124.C1.o1.gs	Method	GENSCAN
Start	660	End	1226
GI	none	Score	.68
Exons	660..690, 1192..1226		

Seq. No.	27090	Seq. ID	OJ000150_31.0124.C2
Gene No.	56151	Strand	+
Start	803	End	1270
Name	OJ000150_31.0124.C2.o1.gs	Method	GENSCAN
Start	803	End	1270
GI	none	Score	.63
Exons	803..930, 1063..1270		

Seq. No.	27091	Seq. ID	OJ000150_31.0124.C7
Gene No.	56152	Strand	-

Start 217  
 Name OJ000150\_31.0124.C7.o1.gs  
 Start 217  
 GI none  
 Exons 217..295, 546..601

End 601  
 Method GENSCAN  
 End 601  
 Score .81

Seq. No. 27092  
 Gene No. 56153  
 Start 370  
 Name OJ000150\_31.0124.C8.o1.gs  
 Start 370  
 GI none  
 Exons 370..440

Seq. ID OJ000150\_31.0124.C8  
 Strand +  
 End 440  
 Method GENSCAN  
 End 440  
 Score .96

Seq. No. 27093  
 Gene No. 56154  
 Start 78  
 Name OJ000150\_31.0124.C11.o1.gs  
 Start 78  
 GI none  
 Exons 78..453

Seq. ID OJ000150\_31.0124.C11  
 Strand -  
 End 453  
 Method GENSCAN  
 End 453  
 Score .99

Seq. No. 27093  
 Gene No. 56154  
 Start 78  
 Name OJ000150\_31.0124.C11.o1.tw  
 Start 91  
 GI none  
 Exons 91..300, 167..298, 314..445, 340..414, 359..445

Seq. ID OJ000150\_31.0124.C11  
 Strand -  
 End 453  
 Method TBLASTX:Wheat  
 End 445  
 Score 80

Seq. No. 27094  
 Gene No. 56155  
 Start 42  
 Name OJ000150\_31.0124.C13.o1.gs  
 Start 42  
 GI none  
 Exons 42..247, 931..949

Seq. ID OJ000150\_31.0124.C13  
 Strand +  
 End 949  
 Method GENSCAN  
 End 949  
 Score .62

Seq. No. 27094  
 Gene No. 56156  
 Start 3028  
 Name OJ000150\_31.0124.C13.o1.np  
 Start 3028  
 GI 6630696  
 Exons 3028..3261, 6419..6451

Seq. ID OJ000150\_31.0124.C13  
 Strand +  
 End 6451  
 Method AAT/NAP  
 End 6451  
 Score 204

GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No. 27094  
 Gene No. 56157  
 Start 3381  
 Name OJ000150\_31.0124.C13.o3.gs  
 Start 3381  
 GI none  
 Exons 3381..3488, 4895..4932, 5160..5406, 5846..5933, 6299..6351, 6545..6658, 7407..7434, 9838..10017, 10584..10916, 10991..11032,

Seq. ID OJ000150\_31.0124.C13  
 Strand -  
 End 11756  
 Method GENSCAN  
 End 11756  
 Score .68

11704..11756

Seq. No. 27094  
Gene No. 56158  
Start 12552  
Name OJ000150\_31.0124.C13.o4.gs  
Start 12552  
GI none  
Exons 12552..12980

Seq. ID OJ000150\_31.0124.C13  
Strand -  
End 12980  
Method GENSCAN  
End 12980  
Score .85

Seq. No. 27095  
Gene No. 56159  
Start 43  
Name OJ000150\_31.0124.C14.o1.gp  
Start 43  
GI 69953 1.R1084  
Exons 43..135, 465..497

Seq. ID OJ000150\_31.0124.C14  
Strand +  
End 497  
Method AAT/GAP  
End 497  
Score 124

GI Descrip. '5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'

Seq. No. 27095  
Gene No. 56160  
Start 1945  
Name OJ000150\_31.0124.C14.o1.gs  
Start 1945  
GI none  
Exons 1945..2028, 2715..2789

Seq. ID OJ000150\_31.0124.C14  
Strand +  
End 2789  
Method GENSCAN  
End 2789  
Score .95

Seq. No. 27095  
Gene No. 56161  
Start 15929  
Name OJ000150\_31.0124.C14.o3.gs  
Start 15929  
GI none  
Exons 15929..17545

Seq. ID OJ000150\_31.0124.C14  
Strand +  
End 17545  
Method GENSCAN  
End 17545  
Score .95

Seq. No. 27095  
Gene No. 56162  
Start 10308  
Name OJ000150\_31.0124.C14.o2.gs  
Start 10308  
GI none  
Exons 10308..10540, 11270..11321

Seq. ID OJ000150\_31.0124.C14  
Strand -  
End 11321  
Method GENSCAN  
End 11321  
Score .9

Seq. No. 27096  
Gene No. 56163  
Start 2769  
Name OJ000150\_31.0124.C16.o1.tw  
Start 1102  
GI none  
Exons 1102..1311, 1178..1309, 1325..1456, 1351..1425

Seq. ID OJ000150\_31.0124.C16  
Strand +  
End 7873  
Method TBLASTX:Wheat  
End 1456  
Score 80

Seq. No. 27096  
Gene No. 56163  
Start 2769  
Name OJ000150\_31.0124.C16.o2.np  
Start 2769

Seq. ID OJ000150\_31.0124.C16  
Strand +  
End 7873  
Method AAT/NAP  
End 6268

GI 2967837 Score 153  
 Exons 2769..3074, 3434..3944, 6240..6268  
 GI Descrip. (AF052641) cyst nematode resistance gene candidate [Triticum aestivum]

Seq. No. 27096 Seq. ID OJ000150\_31.0124.C16  
 Gene No. 56163 Strand +  
 Start 2769 End 7873  
 Name OJ000150\_31.0124.C16.o2.gs Method GENSCAN  
 Start 5098 End 7805  
 GI none Score .69  
 Exons 5098..5205, 7458..7805

Seq. No. 27096 Seq. ID OJ000150\_31.0124.C16  
 Gene No. 56163 Strand +  
 Start 2769 End 7873  
 Name OJ000150\_31.0124.C16.o1.gp Method AAT/GAP  
 Start 7532 End 7873  
 GI 18284\_1.R1084 Score 449  
 Exons 7532..7873  
 GI Descrip. '416316/gb|U03445|PRS405 4.0e-20 Yeast integrative vector pRS405 with LEU2 marker, complete sequence'

Seq. No. 27097 Seq. ID OJ000150\_31.0124.C17  
 Gene No. 56164 Strand +  
 Start 1 End 234  
 Name OJ000150\_31.0124.C17.o1.gp Method AAT/GAP  
 Start 1 End 234  
 GI 2315\_5.R1084 Score 241  
 Exons 1..45, 123..234  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 27097 Seq. ID OJ000150\_31.0124.C17  
 Gene No. 56165 Strand -  
 Start 7 End 230  
 Name OJ000150\_31.0124.C17.o1.gs Method GENSCAN  
 Start 7 End 230  
 GI none Score .76  
 Exons 7..230

Seq. No. 27097 Seq. ID OJ000150\_31.0124.C17  
 Gene No. 56166 Strand -  
 Start 2047 End 2106  
 Name OJ000150\_31.0124.C17.o2.gp Method AAT/GAP  
 Start 2047 End 2106  
 GI 2315\_6.R1084 Score 73  
 Exons 2047..2106  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 4.0e-38 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 27097 Seq. ID OJ000150\_31.0124.C17  
 Gene No. 56167 Strand -  
 Start 3469 End 3731  
 Name OJ000150\_31.0124.C17.o3.gp Method AAT/GAP  
 Start 3469 End 3731  
 GI 2315\_5.R1084 Score 358

Exons 3469..3731  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	27097	Seq. ID	OJ000150_31.0124.C17
Gene No.	56168	Strand	-
Start	3970	End	4389
Name	OJ000150_31.0124.C17.o2.gs	Method	GENSCAN
Start	3970	End	4389
GI	none	Score	.67
Exons	3970..3996, 4294..4389		

Seq. No.	27098	Seq. ID	OJ000150_31.0124.C18
Gene No.	56169	Strand	+
Start	187	End	2671
Name	OJ000150_31.0124.C18.o1.gs	Method	GENSCAN
Start	187	End	2671
GI	none	Score	.65
Exons	187..246, 464..569, 2604..2671		

Seq. No.	27098	Seq. ID	OJ000150_31.0124.C18
Gene No.	56170	Strand	-
Start	3956	End	4933
Name	OJ000150_31.0124.C18.o2.gs	Method	GENSCAN
Start	3956	End	4933
GI	none	Score	.77
Exons	3956..4026, 4318..4933		

Seq. No.	27098	Seq. ID	OJ000150_31.0124.C18
Gene No.	56171	Strand	-
Start	6201	End	6621
Name	OJ000150_31.0124.C18.o3.gs	Method	GENSCAN
Start	6201	End	6621
GI	none	Score	.78
Exons	6201..6621		

Seq. No.	27099	Seq. ID	OJ000150_31.0124.C19
Gene No.	56172	Strand	+
Start	6339	End	6533
Name	OJ000150_31.0124.C19.o4.np	Method	AAT/NAP
Start	6339	End	6533
GI	4680186	Score	102
Exons	6339..6533		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	27099	Seq. ID	OJ000150_31.0124.C19
Gene No.	56173	Strand	-
Start	1	End	4219
Name	OJ000150_31.0124.C19.o2.np	Method	AAT/NAP
Start	1	End	4219
GI	4680179	Score	673
Exons	1..41, 3413..4219		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	27099	Seq. ID	OJ000150_31.0124.C19
Gene No.	56173	Strand	-
Start	1	End	4219



Name OJ000150\_31.0124.C19.o1.gs  
 Start 75  
 GI none  
 Exons 75..371

Method GENSCAN  
 End 371  
 Score .98

Seq. No. 27099  
 Gene No. 56173  
 Start 1  
 Name OJ000150\_31.0124.C19.o1.tw  
 Start 3422  
 GI none  
 Exons 3422..3724, 3531..3728

Seq. ID OJ000150\_31.0124.C19  
 Strand -  
 End 4219  
 Method TBLASTX:Wheat  
 End 3728  
 Score 112

Seq. No. 27099  
 Gene No. 56173  
 Start 1  
 Name OJ000150\_31.0124.C19.o1.tm  
 Start 3434  
 GI none  
 Exons 3434..3724, 3594..3707

Seq. ID OJ000150\_31.0124.C19  
 Strand -  
 End 4219  
 Method TBLASTX:Maize  
 End 3724  
 Score 68

Seq. No. 27099  
 Gene No. 56173  
 Start 1  
 Name OJ000150\_31.0124.C19.o2.tw  
 Start 3747  
 GI none  
 Exons 3747..3947, 3749..3958

Seq. ID OJ000150\_31.0124.C19  
 Strand -  
 End 4219  
 Method TBLASTX:Wheat  
 End 3958  
 Score 113

Seq. No. 27100  
 Gene No. 56174  
 Start 1797  
 Name OJ000150\_31.0124.C20.o2.gs  
 Start 1797  
 GI none  
 Exons 1797..2044

Seq. ID OJ000150\_31.0124.C20  
 Strand -  
 End 2044  
 Method GENSCAN  
 End 2044  
 Score .53

Seq. No. 27101  
 Gene No. 56175  
 Start 1  
 Name OJ000150\_31.0124.C24.o1.np  
 Start 1  
 GI 4680179  
 Exons 1..841

Seq. ID OJ000150\_31.0124.C24  
 Strand -  
 End 841  
 Method AAT/NAP  
 End 841  
 Score 662

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 27101  
 Gene No. 56175  
 Start 1  
 Name OJ000150\_31.0124.C24.o1.tw  
 Start 44  
 GI none  
 Exons 44..346, 153..350

Seq. ID OJ000150\_31.0124.C24  
 Strand -  
 End 841  
 Method TBLASTX:Wheat  
 End 350  
 Score 112

Seq. No. 27101  
 Gene No. 56175  
 Start 1

Seq. ID OJ000150\_31.0124.C24  
 Strand -  
 End 841

Name	OJ000150_31.0124.C24.o1.tm	Method	TBLASTX:Maize
Start	56	End	346
GI	none	Score	68
Exons	56..346, 216..329		
Seq. No.	27101	Seq. ID	OJ000150_31.0124.C24
Gene No.	56175	Strand	-
Start	1	End	841
Name	OJ000150_31.0124.C24.o2.tw	Method	TBLASTX:Wheat
Start	369	End	580
GI	none	Score	113
Exons	369..569, 371..580		
Seq. No.	27102	Seq. ID	OJ000150_31.0124.C25
Gene No.	56176	Strand	+
Start	96	End	165
Name	OJ000150_31.0124.C25.o1.gs	Method	GENSCAN
Start	96	End	165
GI	none	Score	.94
Exons	96..165		
Seq. No.	27103	Seq. ID	OJ000150_31.0124.C26
Gene No.	56177	Strand	-
Start	38	End	511
Name	OJ000150_31.0124.C26.o1.gs	Method	GENSCAN
Start	38	End	511
GI	none	Score	.77
Exons	38..511		
Seq. No.	27104	Seq. ID	OJ000150_31.0124.C29
Gene No.	56178	Strand	+
Start	268	End	384
Name	OJ000150_31.0124.C29.o1.gs	Method	GENSCAN
Start	268	End	384
GI	none	Score	.43
Exons	268..384		
Seq. No.	27105	Seq. ID	OJ000150_31.0124.C30
Gene No.	56179	Strand	-
Start	185	End	526
Name	OJ000150_31.0124.C30.o1.gs	Method	GENSCAN
Start	185	End	526
GI	none	Score	.73
Exons	185..526		
Seq. No.	27106	Seq. ID	OJ000150_31.0124.C31
Gene No.	56180	Strand	-
Start	120	End	227
Name	OJ000150_31.0124.C31.o1.gs	Method	GENSCAN
Start	120	End	227
GI	none	Score	.6
Exons	120..227		
Seq. No.	27107	Seq. ID	OJ000150_31.0124.C34
Gene No.	56181	Strand	-
Start	795	End	1027
Name	OJ000150_31.0124.C34.o1.gs	Method	GENSCAN

Start 795  
GI none  
Exons 795..1027

End 1027  
Score .93

Seq. No. 27108  
Gene No. 56182  
Start 543  
Name OJ000150\_31.0124.C41.ol.gs  
Start 543  
GI none  
Exons 543..1002

Seq. ID OJ000150\_31.0124.C41  
Strand +  
End 1002  
Method GENSCAN  
End 1002  
Score 1

Seq. No. 27109  
Gene No. 56183  
Start 78  
Name OJ000150\_31.0124.C44.ol.gs  
Start 78  
GI none  
Exons 78..213

Seq. ID OJ000150\_31.0124.C44  
Strand -  
End 213  
Method GENSCAN  
End 213  
Score .43

Seq. No. 27110  
Gene No. 56184  
Start 89  
Name OJ000150\_31.0124.C47.ol.gs  
Start 89  
GI none  
Exons 89..655, 733..837

Seq. ID OJ000150\_31.0124.C47  
Strand +  
End 848  
Method GENSCAN  
End 837  
Score .43

Seq. No. 27110  
Gene No. 56184  
Start 89  
Name OJ000150\_31.0124.C47.ol.gp  
Start 577  
GI 2315\_5.R1084  
Exons 577..655, 733..848

Seq. ID OJ000150\_31.0124.C47  
Strand +  
End 848  
Method AAT/GAP  
End 848  
Score 304

GI Descrip. '6016845/dbj|AP000570.1|AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 27111  
Gene No. 56185  
Start 819  
Name OJ000150\_31.0124.C48.ol.gs  
Start 819  
GI none  
Exons 819..836

Seq. ID OJ000150\_31.0124.C48  
Strand +  
End 836  
Method GENSCAN  
End 836  
Score .47

Seq. No. 27112  
Gene No. 56186  
Start 13  
Name OJ000150\_31.0124.C49.ol.gs  
Start 13  
GI none  
Exons 13..89, 95..285

Seq. ID OJ000150\_31.0124.C49  
Strand +  
End 285  
Method GENSCAN  
End 285  
Score .68

Seq. No. 27113  
Gene No. 56187  
Start 1

Seq. ID OJ000150\_31.0124.C56  
Strand -  
End 699

Name	OJ000150_31.0124.C56.ol.np	Method	AAT/NAP
Start	1	End	699
GI	2967837	Score	99
Exons	1..248, 608..699		
GI Descrip.	(AF052641) cyst nematode resistance gene candidate [Triticum aestivum]		

Seq. No.	27114	Seq. ID	OJ000150_31.0124.C57
Gene No.	56188	Strand	+
Start	407	End	1028
Name	OJ000150_31.0124.C57.ol.np	Method	AAT/NAP
Start	407	End	1028
GI	6630696	Score	202
Exons	407..678, 943..1028		
GI Descrip.	(AP000969) ESTs D22114 (C10364), AU076106 (E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27114	Seq. ID	OJ000150_31.0124.C57
Gene No.	56189	Strand	-
Start	797	End	904
Name	OJ000150_31.0124.C57.ol.gs	Method	GENSCAN
Start	797	End	904
GI	none	Score	.9
Exons	797..904		

Seq. No.	27115	Seq. ID	OJ000150_31.0124.C58
Gene No.	56190	Strand	-
Start	17	End	171
Name	OJ000150_31.0124.C58.ol.gs	Method	GENSCAN
Start	17	End	171
GI	none	Score	.48
Exons	17..171		

Seq. No.	27116	Seq. ID	OJ000150_31.0124.C59
Gene No.	56191	Strand	-
Start	204	End	255
Name	OJ000150_31.0124.C59.ol.gs	Method	GENSCAN
Start	204	End	255
GI	none	Score	.58
Exons	204..255		

Seq. No.	27117	Seq. ID	OJ000150_31.0124.C60
Gene No.	56192	Strand	-
Start	305	End	372
Name	OJ000150_31.0124.C60.ol.gs	Method	GENSCAN
Start	305	End	372
GI	none	Score	.64
Exons	305..372		

Seq. No.	27118	Seq. ID	OJ000150_31.0124.C62
Gene No.	56193	Strand	-
Start	34	End	272
Name	OJ000150_31.0124.C62.ol.gs	Method	GENSCAN
Start	34	End	272
GI	none	Score	.64
Exons	34..101, 200..272		

Seq. No.	27119	Seq. ID	OJ000150_31.0124.C63
Gene No.	56194	Strand	-
Start	86	End	339
Name	OJ000150_31.0124.C63.ol.gs	Method	GENSCAN
Start	86	End	339
GI	none	Score	.99
Exons	86..339		
Seq. No.	27120	Seq. ID	OJ000150_31.0124.C66
Gene No.	56195	Strand	-
Start	107	End	190
Name	OJ000150_31.0124.C66.ol.gs	Method	GENSCAN
Start	107	End	190
GI	none	Score	.91
Exons	107..190		
Seq. No.	27121	Seq. ID	OJ000150_31.0124.C68
Gene No.	56196	Strand	+
Start	1	End	722
Name	OJ000150_31.0124.C68.ol.np	Method	AAT/NAP
Start	1	End	722
GI	2967837	Score	80
Exons	1..63, 282..547, 682..722		
GI Descrip.	(AF052641) cyst nematode resistance gene candidate [Triticum aestivum]		
Seq. No.	27122	Seq. ID	OJ000150_31.0124.C69
Gene No.	56197	Strand	+
Start	112	End	225
Name	OJ000150_31.0124.C69.ol.gs	Method	GENSCAN
Start	112	End	225
GI	none	Score	.63
Exons	112..225		
Seq. No.	27123	Seq. ID	OJ000150_31.0124.C70
Gene No.	56198	Strand	+
Start	71	End	298
Name	OJ000150_31.0124.C70.ol.gs	Method	GENSCAN
Start	71	End	298
GI	none	Score	.62
Exons	71..298		
Seq. No.	27124	Seq. ID	OJ000150_31.0124.C74
Gene No.	56199	Strand	+
Start	232	End	843
Name	OJ000150_31.0124.C74.ol.gp	Method	AAT/GAP
Start	232	End	843
GI	2315_5.R1084	Score	355
Exons	232..494, 799..843		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	27125	Seq. ID	OJ000150_31.0124.C75
Gene No.	56200	Strand	-
Start	855	End	1060
Name	OJ000150_31.0124.C75.ol.gs	Method	GENSCAN

Start 855  
GI none  
Exons 855..1060

End 1060  
Score .41

Seq. No. 27126 Seq. ID OJ000150\_31.0124.C76  
Gene No. 56201 Strand -  
Start 3512 End 7620  
Name OJ000150\_31.0124.C76.o2.gs Method GENSCAN  
Start 3512 End 7620  
GI none Score .79  
Exons 3512..3782, 4015..4207, 5695..6073, 6499..6601, 6820..6924,  
7478..7620

Seq. No. 27126 Seq. ID OJ000150\_31.0124.C76  
Gene No. 56201 Strand -  
Start 3512 End 7620  
Name OJ000150\_31.0124.C76.o1.np Method AAT/NAP  
Start 5720 End 6102  
GI 3928543 Score 299  
Exons 5720..6102  
GI Descrip. (AB016819) UDP-glucose glucosyltransferase [Arabidopsis  
thaliana]

Seq. No. 27126 Seq. ID OJ000150\_31.0124.C76  
Gene No. 56201 Strand -  
Start 3512 End 7620  
Name OJ000150\_31.0124.C76.o1.tm Method TBLASTX:Maize  
Start 5723 End 6106  
GI none Score 340  
Exons 5723..6106, 5730..6086, 5972..6106

Seq. No. 27126 Seq. ID OJ000150\_31.0124.C76  
Gene No. 56201 Strand -  
Start 3512 End 7620  
Name OJ000150\_31.0124.C76.o1.ts Method TBLASTX:Soybean  
Start 5732 End 6104  
GI none Score 211  
Exons 5732..6100, 5733..6104

Seq. No. 27126 Seq. ID OJ000150\_31.0124.C76  
Gene No. 56201 Strand -  
Start 3512 End 7620  
Name OJ000150\_31.0124.C76.o1.tc Method TBLASTX:Cress  
Start 5783 End 6088  
GI none Score 257  
Exons 5783..6088, 5808..6083

Seq. No. 27127 Seq. ID OJ000150\_31.0124.C77  
Gene No. 56202 Strand -  
Start 116 End 167  
Name OJ000150\_31.0124.C77.o1.gs Method GENSCAN  
Start 116 End 167  
GI none Score .58  
Exons 116..167

Seq. No. 27128 Seq. ID OJ000150\_31.0124.C78  
Gene No. 56203 Strand +

Start	1022	End	2277
Name	OJ000150_31.0124.C78.o1.gs	Method	GENSCAN
Start	1022	End	2277
GI	none	Score	.54
Exons	1022..1070, 1324..1469, 1907..1933, 1996..2085, 2170..2277		

Seq. No.	27128	Seq. ID	OJ000150_31.0124.C78
Gene No.	56204	Strand	-
Start	3414	End	4943
Name	OJ000150_31.0124.C78.o2.gs	Method	GENSCAN
Start	3414	End	4937
GI	none	Score	.56
Exons	3414..4937		

Seq. No.	27128	Seq. ID	OJ000150_31.0124.C78
Gene No.	56204	Strand	-
Start	3414	End	4943
Name	OJ000150_31.0124.C78.o1.np	Method	AAT/NAP
Start	3453	End	4925
GI	3928543	Score	1256
Exons	3453..4925		
GI Descrip.	(AB016819) UDP-glucose glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	27128	Seq. ID	OJ000150_31.0124.C78
Gene No.	56204	Strand	-
Start	3414	End	4943
Name	OJ000150_31.0124.C78.o2.tm	Method	TBLASTX:Maize
Start	3456	End	4049
GI	none	Score	416
Exons	3456..3884, 3463..3867, 3627..3884, 3885..3974, 3885..4049, 3982..4026		

Seq. No.	27128	Seq. ID	OJ000150_31.0124.C78
Gene No.	56204	Strand	-
Start	3414	End	4943
Name	OJ000150_31.0124.C78.o1.tc	Method	TBLASTX:Cress
Start	3514	End	4925
GI	none	Score	254
Exons	3514..3867, 3516..3884, 3885..4160, 3898..4083, 4158..4331, 4213..4326, 4362..4571, 4462..4572, 4590..4682, 4614..4682, 4698..4925, 4714..4899		

Seq. No.	27128	Seq. ID	OJ000150_31.0124.C78
Gene No.	56204	Strand	-
Start	3414	End	4943
Name	OJ000150_31.0124.C78.o1.ts	Method	TBLASTX:Soybean
Start	3528	End	4902
GI	none	Score	188
Exons	3528..3629, 3636..3884, 3637..3867, 3891..4094, 3898..4101, 4119..4160, 4158..4331, 4362..4580, 4465..4572, 4587..4682, 4698..4901, 4783..4902		

Seq. No.	27128	Seq. ID	OJ000150_31.0124.C78
Gene No.	56204	Strand	-
Start	3414	End	4943
Name	OJ000150_31.0124.C78.o1.tw	Method	TBLASTX:Wheat

Start	3646	End	4043
GI	none	Score	174
Exons	3646..3867, 3648..3869, 3897..4043		

Seq. No.	27128	Seq. ID	OJ000150_31.0124.C78
Gene No.	56204	Strand	-
Start	3414	End	4943
Name	OJ000150_31.0124.C78.o1.tm	Method	TBLASTX:Maize
Start	4065	End	4907
GI	none	Score	61
Exons	4065..4181, 4066..4143, 4128..4193, 4158..4331, 4213..4326, 4362..4583, 4363..4404, 4456..4599, 4581..4682, 4623..4676, 4683..4907, 4714..4905		

Seq. No.	27128	Seq. ID	OJ000150_31.0124.C78
Gene No.	56204	Strand	-
Start	3414	End	4943
Name	OJ000150_31.0124.C78.o2.tw	Method	TBLASTX:Wheat
Start	4614	End	4943
GI	none	Score	45
Exons	4614..4682, 4615..4647, 4695..4943, 4714..4911		

Seq. No.	27129	Seq. ID	OJ000150_31.0124.C81
Gene No.	56205	Strand	-
Start	16	End	86
Name	OJ000150_31.0124.C81.o1.gs	Method	GENSCAN
Start	16	End	86
GI	none	Score	.94
Exons	16..86		

Seq. No.	27129	Seq. ID	OJ000150_31.0124.C81
Gene No.	56206	Strand	-
Start	376	End	529
Name	OJ000150_31.0124.C81.o1.gp	Method	AAT/GAP
Start	376	End	529
GI	none	Score	165
Exons	376..529		

Seq. No.	27130	Seq. ID	OJ000150_31.0124.C82
Gene No.	56207	Strand	+
Start	157	End	237
Name	OJ000150_31.0124.C82.o1.gs	Method	GENSCAN
Start	157	End	237
GI	none	Score	.63
Exons	157..237		

Seq. No.	27130	Seq. ID	OJ000150_31.0124.C82
Gene No.	56208	Strand	-
Start	169	End	248
Name	OJ000150_31.0124.C82.o1.np	Method	AAT/NAP
Start	169	End	248
GI	5777623	Score	64
Exons	169..248		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	27131	Seq. ID	OJ000150_31.0124.C89
Gene No.	56209	Strand	+



Start	1	End	315
Name	OJ000150_31.0124.C89.ol.np	Method	AAT/NAP
Start	1	End	315
GI	6069646	Score	379
Exons	1..315		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	27132	Seq. ID	OJ000150_31.0124.C90
Gene No.	56210	Strand	-
Start	228	End	305
Name	OJ000150_31.0124.C90.ol.gs	Method	GENSCAN
Start	228	End	305
GI	none	Score	.92
Exons	228..305		

Seq. No.	27133	Seq. ID	OJ000150_31.0124.C91
Gene No.	56211	Strand	-
Start	1	End	628
Name	OJ000150_31.0124.C91.ol.np	Method	AAT/NAP
Start	1	End	628
GI	4971998	Score	139
Exons	1..80, 497..628		
GI Descrip.	(Y14685) polynucleotide phosphorylase [Arabidopsis thaliana] gi 4972000 emb CAB43865.1  (Y14686) polynucleotide phosphorylase [Arabidopsis thaliana]		

Seq. No.	27134	Seq. ID	OJ000150_31.0124.C94
Gene No.	56212	Strand	-
Start	216	End	267
Name	OJ000150_31.0124.C94.ol.gs	Method	GENSCAN
Start	216	End	267
GI	none	Score	.91
Exons	216..267		

Seq. No.	27135	Seq. ID	OJ000150_31.0124.C95
Gene No.	56213	Strand	-
Start	367	End	384
Name	OJ000150_31.0124.C95.ol.gs	Method	GENSCAN
Start	367	End	384
GI	none	Score	.42
Exons	367..384		

Seq. No.	27136	Seq. ID	OJ000150_31.0124.C96
Gene No.	56214	Strand	+
Start	514	End	712
Name	OJ000150_31.0124.C96.ol.tm	Method	TBLASTX:Maize
Start	504	End	711
GI	none	Score	224
Exons	504..662, 529..711, 610..708		

Seq. No.	27136	Seq. ID	OJ000150_31.0124.C96
Gene No.	56214	Strand	+
Start	514	End	712

Name	OJ000150_31.0124.C96.ol.tw	Method	TBLASTX:Wheat
Start	505	End	711
GI	none	Score	198
Exons	505..711, 537..662		
Seq. No.	27136	Seq. ID	OJ000150_31.0124.C96
Gene No.	56214	Strand	+
Start	514	End	712
Name	OJ000150_31.0124.C96.ol.np	Method	AAT/NAP
Start	514	End	712
GI	6587848	Score	168
Exons	514..712		
GI Descrip.	(AC006551) Putative UDP-glucose glucosyltransferase [Arabidopsis thaliana]		
Seq. No.	27136	Seq. ID	OJ000150_31.0124.C96
Gene No.	56214	Strand	+
Start	514	End	712
Name	OJ000150_31.0124.C96.ol.gs	Method	GENSCAN
Start	523	End	636
GI	none	Score	.4
Exons	523..636		
Seq. No.	27136	Seq. ID	OJ000150_31.0124.C96
Gene No.	56214	Strand	+
Start	514	End	712
Name	OJ000150_31.0124.C96.ol.tc	Method	TBLASTX:Cress
Start	532	End	711
GI	none	Score	190
Exons	532..711, 546..653		
Seq. No.	27136	Seq. ID	OJ000150_31.0124.C96
Gene No.	56214	Strand	+
Start	514	End	712
Name	OJ000150_31.0124.C96.ol.ts	Method	TBLASTX:Soybean
Start	540	End	711
GI	none	Score	203
Exons	540..662, 541..711		
Seq. No.	27137	Seq. ID	OJ000150_31.0124.C98
Gene No.	56215	Strand	-
Start	437	End	531
Name	OJ000150_31.0124.C98.ol.gs	Method	GENSCAN
Start	437	End	531
GI	none	Score	.98
Exons	437..531		
Seq. No.	27138	Seq. ID	OJ000150_31.0124.C101
Gene No.	56216	Strand	-
Start	522	End	650
Name	OJ000150_31.0124.C101.ol.gs	Method	GENSCAN
Start	522	End	650
GI	none	Score	.65
Exons	522..650		
Seq. No.	27139	Seq. ID	OJ000150_31.0124.C102
Gene No.	56217	Strand	+

Start	365	End	652
Name	OJ000150_31.0124.C102.ol.gs	Method	GENSCAN
Start	365	End	652
GI	none	Score	.61
Exons	365..652		
Seq. No.	27140	Seq. ID	OJ000150_31.0124.C105
Gene No.	56218	Strand	-
Start	444	End	617
Name	OJ000150_31.0124.C105.ol.gs	Method	GENSCAN
Start	444	End	617
GI	none	Score	.85
Exons	444..617		
Seq. No.	27141	Seq. ID	OJ000150_31.0124.C106
Gene No.	56219	Strand	+
Start	420	End	487
Name	OJ000150_31.0124.C106.ol.gs	Method	GENSCAN
Start	420	End	487
GI	none	Score	.97
Exons	420..487		
Seq. No.	27142	Seq. ID	OJ000150_31.0124.C108
Gene No.	56220	Strand	+
Start	270	End	466
Name	OJ000150_31.0124.C108.ol.gs	Method	GENSCAN
Start	270	End	466
GI	none	Score	.51
Exons	270..466		
Seq. No.	27143	Seq. ID	OJ000150_32.0124.C3
Gene No.	56221	Strand	-
Start	1	End	754
Name	OJ000150_32.0124.C3.ol.np	Method	AAT/NAP
Start	1	End	754
GI	4544372	Score	542
Exons	1..754		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	27143	Seq. ID	OJ000150_32.0124.C3
Gene No.	56221	Strand	-
Start	1	End	754
Name	OJ000150_32.0124.C3.ol.tm	Method	TBLASTX:Maize
Start	56	End	400
GI	none	Score	160
Exons	56..400, 57..251, 119..400		
Seq. No.	27143	Seq. ID	OJ000150_32.0124.C3
Gene No.	56221	Strand	-
Start	1	End	754
Name	OJ000150_32.0124.C3.ol.ts	Method	TBLASTX:Soybean
Start	95	End	325
GI	none	Score	87
Exons	95..325, 123..242		
Seq. No.	27143	Seq. ID	OJ000150_32.0124.C3

Gene No. 56221  
 Start 1  
 Name OJ000150\_32.0124.C3.o1.gs  
 Start 122  
 GI none  
 Exons 122..297, 475..724

Strand -  
 End 754  
 Method GENSCAN  
 End 724  
 Score .85

Seq. No. 27143  
 Gene No. 56221  
 Start 1  
 Name OJ000150\_32.0124.C3.o1.tw  
 Start 269  
 GI none  
 Exons 269..622, 272..613, 312..614, 532..624, 617..673, 627..668

Seq. ID OJ000150\_32.0124.C3  
 Strand -  
 End 754  
 Method TBLASTX:Wheat  
 End 673  
 Score 179

Seq. No. 27143  
 Gene No. 56221  
 Start 1  
 Name OJ000150\_32.0124.C3.o2.tm  
 Start 401  
 GI none  
 Exons 401..619, 402..614

Seq. ID OJ000150\_32.0124.C3  
 Strand -  
 End 754  
 Method TBLASTX:Maize  
 End 619  
 Score 183

Seq. No. 27144  
 Gene No. 56222  
 Start 74  
 Name OJ000150\_32.0124.C4.o1.gs  
 Start 74  
 GI none  
 Exons 74..135

Seq. ID OJ000150\_32.0124.C4  
 Strand +  
 End 135  
 Method GENSCAN  
 End 135  
 Score .67

Seq. No. 27145  
 Gene No. 56223  
 Start 762  
 Name OJ000150\_32.0124.C5.o1.gs  
 Start 762  
 GI none  
 Exons 762..921

Seq. ID OJ000150\_32.0124.C5  
 Strand +  
 End 921  
 Method GENSCAN  
 End 921  
 Score .91

Seq. No. 27146  
 Gene No. 56224  
 Start 82  
 Name OJ000150\_32.0124.C6.o1.np  
 Start 82  
 GI 1839188  
 Exons 82..206, 345..607, 729..928

Seq. ID OJ000150\_32.0124.C6  
 Strand +  
 End 928  
 Method AAT/NAP  
 End 928  
 Score 301

GI Descrip. (U86081) root hair defective 3 [Arabidopsis thaliana]

Seq. No. 27146  
 Gene No. 56224  
 Start 82  
 Name OJ000150\_32.0124.C6.o1.tm  
 Start 144  
 GI none  
 Exons 144..206, 144..206, 148..207, 336..608, 344..607, 718..822, 726..821, 729..827

Seq. ID OJ000150\_32.0124.C6  
 Strand +  
 End 928  
 Method TBLASTX:Maize  
 End 827  
 Score 66

Seq. No.	27146	Seq. ID	OJ000150_32.0124.C6
Gene No.	56224	Strand	+
Start	82	End	928
Name	OJ000150_32.0124.C6.ol.gs	Method	GENSCAN
Start	472	End	607
GI	none	Score	.84
Exons	472..607		

Seq. No.	27147	Seq. ID	OJ000150_32.0124.C7
Gene No.	56225	Strand	-
Start	1	End	437
Name	OJ000150_32.0124.C7.ol.np	Method	AAT/NAP
Start	1	End	437
GI	5852179	Score	215
Exons	1..142, 217..437		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	27147	Seq. ID	OJ000150_32.0124.C7
Gene No.	56225	Strand	-
Start	1	End	437
Name	OJ000150_32.0124.C7.ol.gs	Method	GENSCAN
Start	47	End	351
GI	none	Score	.92
Exons	47..351		

Seq. No.	27148	Seq. ID	OJ000150_32.0124.C8
Gene No.	56226	Strand	+
Start	100	End	999
Name	OJ000150_32.0124.C8.ol.np	Method	AAT/NAP
Start	100	End	999
GI	5852178	Score	444
Exons	100..417, 449..537, 889..999		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	27148	Seq. ID	OJ000150_32.0124.C8
Gene No.	56227	Strand	+
Start	1134	End	1568
Name	OJ000150_32.0124.C8.ol.gp	Method	AAT/GAP
Start	1134	End	1568
GI	2428185	Score	628
Exons	1134..1568		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl17804		

Seq. No.	27148	Seq. ID	OJ000150_32.0124.C8
Gene No.	56228	Strand	-
Start	160	End	526
Name	OJ000150_32.0124.C8.ol.gs	Method	GENSCAN
Start	160	End	526
GI	none	Score	.87
Exons	160..402, 443..526		

Seq. No.	27149	Seq. ID	OJ000150_32.0124.C9
Gene No.	56229	Strand	+
Start	51	End	437
Name	OJ000150_32.0124.C9.ol.gs	Method	GENSCAN
Start	51	End	437

GI	none	Score	.6
Exons	51..437		
Seq. No.	27150	Seq. ID	OJ000150_32.0124.C11
Gene No.	56230	Strand	-
Start	1	End	492
Name	OJ000150_32.0124.C11.o1.np	Method	AAT/NAP
Start	1	End	492
GI	1839188	Score	162
Exons	1..22, 134..199, 284..347, 467..492		
GI Descrip.	(U86081) root hair defective 3 [Arabidopsis thaliana]		
Seq. No.	27151	Seq. ID	OJ000150_32.0124.C12
Gene No.	56231	Strand	-
Start	374	End	828
Name	OJ000150_32.0124.C12.o1.gs	Method	GENSCAN
Start	374	End	828
GI	none	Score	.5
Exons	374..828		
Seq. No.	27152	Seq. ID	OJ000150_32.0124.C15
Gene No.	56232	Strand	-
Start	210	End	426
Name	OJ000150_32.0124.C15.o1.gs	Method	GENSCAN
Start	210	End	426
GI	none	Score	.52
Exons	210..426		
Seq. No.	27153	Seq. ID	OJ000150_32.0124.C16
Gene No.	56233	Strand	-
Start	1	End	654
Name	OJ000150_32.0124.C16.o1.gp	Method	AAT/GAP
Start	1	End	654
GI	28932 1.R1084	Score	655
Exons	1..260, 557..654		
GI Descrip.	'1839188 2.0e-39 (U86081) root hair defective 3 [Arabidopsis thaliana]'		
Seq. No.	27153	Seq. ID	OJ000150_32.0124.C16
Gene No.	56233	Strand	-
Start	1	End	654
Name	OJ000150_32.0124.C16.o1.gs	Method	GENSCAN
Start	126	End	653
GI	none	Score	.42
Exons	126..260, 557..653		
Seq. No.	27154	Seq. ID	OJ000150_32.0124.C21
Gene No.	56234	Strand	+
Start	1	End	1009
Name	OJ000150_32.0124.C21.o1.gp	Method	AAT/GAP
Start	1	End	1009
GI	840 1.R1084	Score	1925
Exons	1..1009		
GI Descrip.	'4105681 1.0e-141 (AF049348) unknown [Oryza sativa]'		
Seq. No.	27154	Seq. ID	OJ000150_32.0124.C21
Gene No.	56234	Strand	+

Start	1	End	1009
Name	OJ000150_32.0124.C21.o1.gs	Method	GENSCAN
Start	19	End	995
GI	none	Score	.57
Exons	19..78, 130..995		

Seq. No.	27154	Seq. ID	OJ000150_32.0124.C21
Gene No.	56234	Strand	+
Start	1	End	1009
Name	OJ000150_32.0124.C21.o1.np	Method	AAT/NAP
Start	19	End	1009
GI	4105681	Score	1841
Exons	19..1009		
GI Descrip.	(AF049348) unknown [Oryza sativa]		

Seq. No.	27154	Seq. ID	OJ000150_32.0124.C21
Gene No.	56234	Strand	+
Start	1	End	1009
Name	OJ000150_32.0124.C21.o1.tm	Method	TBLASTX:Maize
Start	118	End	1008
GI	none	Score	77
Exons	118..174, 307..351, 313..363, 319..363, 348..500, 352..465, 394..585, 402..479, 403..474, 403..510, 421..483, 421..513, 429..485, 445..585, 472..585, 486..572, 487..585, 523..585, 538..588, 541..591, 562..687, 640..729, 646..738, 655..738, 655..720, 658..738, 673..738, 778..864, 781..864, 781..846, 781..813, 784..864, 787..864, 799..852, 916..993, 916..993, 930..992, 931..1008, 931..1008, 931..957, 942..992, 949..1008		

Seq. No.	27155	Seq. ID	OJ000150_32.0124.C22
Gene No.	56235	Strand	+
Start	8	End	138
Name	OJ000150_32.0124.C22.o1.gs	Method	GENSCAN
Start	8	End	138
GI	none	Score	.54
Exons	8..138		

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56236	Strand	+
Start	9763	End	11540
Name	OJ000150_32.0124.C23.o3.gs	Method	GENSCAN
Start	9763	End	11540
GI	none	Score	.95
Exons	9763..9844, 10376..10448, 10625..10754, 10911..11540		

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56237	Strand	-
Start	8218	End	12031
Name	OJ000150_32.0124.C23.o1.np	Method	AAT/NAP
Start	8218	End	12031
GI	6815052	Score	223
Exons	8218..8394, 8664..8730, 8812..8929, 11984..12031		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56237	Strand	-
Start	8218	End	12031

Name	OJ000150_32.0124.C23.o1*gp	Method	AAT/GAP
Start	9018	End	9190
GI	LIB3433-026-P1-K1-C1	Score	258
Exons	9018..9190		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

  

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56237	Strand	-
Start	8218	End	12031
Name	OJ000150_32.0124.C23.o2.np	Method	AAT/NAP
Start	10302	End	11193
GI	5852178	Score	427
Exons	10302..10397, 10761..10864, 10896..11193		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

  

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56238	Strand	-
Start	13143	End	15855
Name	OJ000150_32.0124.C23.o1.tm	Method	TBLASTX:Maize
Start	5396	End	5746
GI	none	Score	48
Exons	5396..5449, 5406..5450, 5456..5680, 5463..5573, 5503..5670, 5601..5681, 5654..5746		

  

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56238	Strand	-
Start	13143	End	15855
Name	OJ000150_32.0124.C23.o1.tw	Method	TBLASTX:Wheat
Start	5970	End	6236
GI	none	Score	39
Exons	5970..5996, 5972..5995, 5978..6235, 5979..6236		

  

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56238	Strand	-
Start	13143	End	15855
Name	OJ000150_32.0124.C23.o4.gs	Method	GENSCAN
Start	13143	End	15787
GI	none	Score	.59
Exons	13143..13349, 13726..13826, 15433..15787		

  

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56238	Strand	-
Start	13143	End	15855
Name	OJ000150_32.0124.C23.o2.gp	Method	AAT/GAP
Start	13413	End	13504
GI	LIB3477-003-P1-K1-E9	Score	103
Exons	13413..13504		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

  

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56238	Strand	-
Start	13143	End	15855
Name	OJ000150_32.0124.C23.o3.gp	Method	AAT/GAP
Start	14247	End	15855



GI 450\_1.R1084 Score 1513  
 Exons 14247..14636, 14793..14837, 15433..15855  
 GI Descrip. '283006/pir||S28608 9.0e-37 osc6 protein - rice'

Seq. No.	27156	Seq. ID	OJ000150_32.0124.C23
Gene No.	56238	Strand	-
Start	13143	End	15855
Name	OJ000150_32.0124.C23.o3.np	Method	AAT/NAP
Start	14787	End	15787
GI	283006	Score	550
Exons	14787..14837, 15433..15787		
GI Descrip.	osc6 protein - rice		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56239	Strand	+
Start	1	End	1045
Name	OJ000150_32.0124.C24.o1.gp	Method	AAT/GAP
Start	1	End	1045
GI	840_1.R1084	Score	2031
Exons	1..1045		
GI Descrip.	'4105681 1.0e-141 (AF049348) unknown [Oryza sativa]'		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56239	Strand	+
Start	1	End	1045
Name	OJ000150_32.0124.C24.o1.np	Method	AAT/NAP
Start	1	End	596
GI	4105681	Score	1078
Exons	1..596		
GI Descrip.	(AF049348) unknown [Oryza sativa]		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56240	Strand	+
Start	14417	End	14878
Name	OJ000150_32.0124.C24.o3.np	Method	AAT/NAP
Start	14185	End	14845
GI	6006381	Score	242
Exons	14185..14449, 14661..14845		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56240	Strand	+
Start	14417	End	14878
Name	OJ000150_32.0124.C24.o4.gs	Method	GENSCAN
Start	14417	End	14878
GI	none	Score	.89
Exons	14417..14878		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o4.tm	Method	TBLASTX:Maize
Start	38	End	559
GI	none	Score	84
Exons	38..127, 44..85, 44..136, 53..136, 53..118, 56..136, 71..136, 176..262, 179..262, 179..244, 179..211, 182..262, 185..262, 197..250, 314..391, 314..391, 328..390, 329..409, 329..412,		

329..355, 340..390, 340..390, 347..412, 473..547, 473..559,  
473..547, 476..544, 484..525, 484..522, 484..522

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o2.gs	Method	GENSCAN
Start	2097	End	9414
GI	none	Score	.83
Exons	2097..2168, 2795..3010, 3300..3396, 3522..3616, 3937..4041, 4125..4286, 4376..4472, 4594..4729, 5030..5119, 5547..5712, 6085..6163, 6531..6622, 6701..6769, 6903..7061, 7209..7265, 7339..7401, 7482..7529, 7791..7854, 7974..8126, 8949..9015, 9315..9414		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o2.gp	Method	AAT/GAP
Start	2707	End	4211
GI	28932_1.R1084	Score	1265
Exons	2707..3010, 3300..3396, 3522..3616, 3937..4041, 4125..4211		
GI Descrip.	'1839188 2.0e-39 (U86081) root hair defective 3 [Arabidopsis thaliana]'		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o2.np	Method	AAT/NAP
Start	2762	End	9459
GI	1839188	Score	1686
Exons	2762..2920, 2953..3010, 3300..3396, 3522..3616, 3937..4041, 4125..4286, 4376..4472, 4594..4856, 4995..5119, 5547..5712, 6085..6163, 6531..6622, 6701..6769, 6903..7061, 7209..7265, 7339..7401, 7482..7529, 7641..7706, 7791..7854, 7974..8044, 8701..8803, 8949..9015, 9315..9459		
GI Descrip.	(U86081) root hair defective 3 [Arabidopsis thaliana]		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o2.ts	Method	TBLASTX:Soybean
Start	4215	End	4679
GI	none	Score	.52
Exons	4215..4286, 4219..4278, 4347..4475, 4361..4483, 4593..4679, 4594..4677		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o1.tm	Method	TBLASTX:Maize
Start	4374	End	5706
GI	none	Score	104
Exons	4374..4472, 4379..4483, 4380..4475, 4593..4865, 4594..4857, 4995..5066, 4995..5057, 5058..5111, 5541..5636, 5541..5636, 5551..5640, 5555..5641, 5643..5678, 5643..5702, 5644..5700, 5647..5706		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o1.ts	Method	TBLASTX:Soybean
Start	5019	End	7383
GI	none	Score	87
Exons	5019..5123, 5560..5730, 5561..5728, 6076..6165, 6098..6184, 6513..6623, 6530..6625, 6701..6769, 6702..6767, 6891..7064, 6901..7068, 7179..7265, 7336..7383		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o1.tc	Method	TBLASTX:Cress
Start	5563	End	7845
GI	none	Score	74
Exons	5563..5721, 6082..6207, 6507..6620, 6530..6625, 6701..6769, 6711..6767, 6891..7064, 6892..7068, 7206..7265, 7207..7266, 7315..7404, 7336..7404, 7470..7565, 7641..7688, 7645..7713, 7788..7844, 7789..7845		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o3.tm	Method	TBLASTX:Maize
Start	6699	End	7010
GI	none	Score	80
Exons	6699..6767, 6701..6772, 6701..6769, 6891..7010, 6892..7008		

Seq. No.	27157	Seq. ID	OJ000150_32.0124.C24
Gene No.	56241	Strand	-
Start	2097	End	9459
Name	OJ000150_32.0124.C24.o2.tm	Method	TBLASTX:Maize
Start	7476	End	9354
GI	none	Score	66
Exons	7476..7532, 7641..7688, 7642..7707, 7788..7853, 7789..7857, 7971..8045, 7973..8047, 7980..8045, 8701..8811, 8704..8805, 8948..9016, 8949..9017, 9301..9354		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56242	Strand	+
Start	969	End	2371
Name	OJ000150_32.0124.C25.o1.np	Method	AAT/NAP
Start	969	End	2371
GI	4651204	Score	119
Exons	969..1000, 2176..2371		
GI Descrip.	(AB026262) ring finger protein [Cicer arietinum]		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56243	Strand	+
Start	8112	End	8550
Name	OJ000150_32.0124.C25.o1.gp	Method	AAT/GAP
Start	8112	End	8550
GI	uC-osflcyp169c05a1	Score	831
Exons	8112..8550		
GI Descrip.	'3892058/gb AAC78271.1 AAC78271 3.0e-17 (AC002330) putative		

glutamate-/aspartate-binding peptide [*Arabidopsis thaliana*]

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56244	Strand	+
Start	17564	End	20239
Name	OJ000150_32.0124.C25.o3.gs	Method	GENSCAN
Start	17564	End	20239
GI	none	Score	.53
Exons	17564..17628, 19151..19218, 20172..20239		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56245	Strand	+
Start	38931	End	42824
Name	OJ000150_32.0124.C25.o6.gs	Method	GENSCAN
Start	38931	End	42824
GI	none	Score	.61
Exons	38931..39000, 39689..39833, 40051..41077, 41189..41398, 41509..41817, 42102..42206, 42282..42824		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56246	Strand	-
Start	7364	End	12100
Name	OJ000150_32.0124.C25.o2.gs	Method	GENSCAN
Start	7364	End	12100
GI	none	Score	.72
Exons	7364..7618, 7830..7937, 8382..8534, 8627..8784, 9186..9228, 11399..12100		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56246	Strand	-
Start	7364	End	12100
Name	OJ000150_32.0124.C25.o2.np	Method	AAT/NAP
Start	8331	End	11959
GI	3892058	Score	468
Exons	8331..8534, 8627..8806, 11495..11586, 11694..11959		
GI Descrip.	(AC002330) putative glutamate-/aspartate-binding peptide [ <i>Arabidopsis thaliana</i> ]		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56247	Strand	-
Start	25140	End	27870
Name	OJ000150_32.0124.C25.o4.gs	Method	GENSCAN
Start	25140	End	27564
GI	none	Score	.64
Exons	25140..25308, 25355..25553, 27462..27564		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56247	Strand	-
Start	25140	End	27870
Name	OJ000150_32.0124.C25.o3.gp	Method	AAT/GAP
Start	25458	End	27870
GI	none	Score	966
Exons	25458..25553, 27462..27870		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56248	Strand	-
Start	34900	End	37111

Name	OJ000150_32.0124.C25.o5.gs	Method	GENSCAN
Start	34900	End	37111
GI	none	Score	.6
Exons	34900..35100, 36348..36568, 37003..37111		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o5.ts	Method	TBLASTX:Soybean
Start	8352	End	11878
GI	none	Score	93
Exons	8352..8564, 8368..8532, 8621..8800, 8624..8722, 8670..8807, 11516..11584, 11752..11844, 11843..11878		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o2.tm	Method	TBLASTX:Maize
Start	8355	End	11587
GI	none	Score	91
Exons	8355..8537, 8371..8535, 8624..8800, 8649..8789, 11492..11587, 11505..11558		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o3.np	Method	AAT/NAP
Start	43322	End	46352
GI	5902445	Score	1343
Exons	43322..46352		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o7.ts	Method	TBLASTX:Soybean
Start	43328	End	43561
GI	none	Score	107
Exons	43328..43561, 43398..43559		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o3.tw	Method	TBLASTX:Wheat
Start	43337	End	43744
GI	none	Score	105
Exons	43337..43744, 43371..43736		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o7.gs	Method	GENSCAN
Start	43424	End	49897
GI	none	Score	.5
Exons	43424..44000, 44043..44595, 44616..45069, 45166..45531, 45564..45829, 46007..46617, 46733..47898, 48137..49249, 49307..49897		

Seq. No. 27158  
Gene No. 56249  
Start 43424  
Name OJ000150\_32.0124.C25.o3.ts  
Start 44105  
GI none  
Exons 44105..44386

Seq. ID OJ000150\_32.0124.C25  
Strand -  
End 49897  
Method TBLASTX:Soybean  
End 44386  
Score 227

Seq. No. 27158  
Gene No. 56249  
Start 43424  
Name OJ000150\_32.0124.C25.o4.tm  
Start 44135  
GI none  
Exons 44135..44464

Seq. ID OJ000150\_32.0124.C25  
Strand -  
End 49897  
Method TBLASTX:Maize  
End 44464  
Score 203

Seq. No. 27158  
Gene No. 56249  
Start 43424  
Name OJ000150\_32.0124.C25.o4.tw  
Start 44701  
GI none  
Exons 44701..44991, 45031..45120

Seq. ID OJ000150\_32.0124.C25  
Strand -  
End 49897  
Method TBLASTX:Wheat  
End 45120  
Score 81

Seq. No. 27158  
Gene No. 56249  
Start 43424  
Name OJ000150\_32.0124.C25.o1.ts  
Start 44755  
GI none  
Exons 44755..45006, 45028..45165, 45032..45163

Seq. ID OJ000150\_32.0124.C25  
Strand -  
End 49897  
Method TBLASTX:Soybean  
End 45165  
Score 75

Seq. No. 27158  
Gene No. 56249  
Start 43424  
Name OJ000150\_32.0124.C25.o2.ts  
Start 45316  
GI none  
Exons 45316..45465, 45329..45460, 45504..45785, 45655..45747

Seq. ID OJ000150\_32.0124.C25  
Strand -  
End 49897  
Method TBLASTX:Soybean  
End 45785  
Score 79

Seq. No. 27158  
Gene No. 56249  
Start 43424  
Name OJ000150\_32.0124.C25.o1.tm  
Start 45474  
GI none  
Exons 45474..45932, 45475..45783, 45546..45932

Seq. ID OJ000150\_32.0124.C25  
Strand -  
End 49897  
Method TBLASTX:Maize  
End 45932  
Score 225

Seq. No. 27158  
Gene No. 56249  
Start 43424  
Name OJ000150\_32.0124.C25.o2.tw  
Start 45480  
GI none  
Exons 45480..45782, 45520..45783

Seq. ID OJ000150\_32.0124.C25  
Strand -  
End 49897  
Method TBLASTX:Wheat  
End 45783  
Score 109

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o1.tw	Method	TBLASTX:Wheat
Start	45801	End	46205
GI	none	Score	179
Exons	45801..46154, 45804..46145, 45844..46146, 46064..46156, 46149..46205, 46159..46200		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o3.tm	Method	TBLASTX:Maize
Start	45933	End	46151
GI	none	Score	183
Exons	45933..46151, 45934..46146		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o4.ts	Method	TBLASTX:Soybean
Start	46002	End	46367
GI	none	Score	138
Exons	46002..46136, 46143..46367		

Seq. No.	27158	Seq. ID	OJ000150_32.0124.C25
Gene No.	56249	Strand	-
Start	43424	End	49897
Name	OJ000150_32.0124.C25.o6.ts	Method	TBLASTX:Soybean
Start	46777	End	47115
GI	none	Score	202
Exons	46777..47115		

Seq. No.	27159	Seq. ID	OJ000150_32.0124.C26
Gene No.	56250	Strand	-
Start	627	End	1209
Name	OJ000150_32.0124.C26.o1.gs	Method	GENSCAN
Start	627	End	1209
GI	none	Score	.89
Exons	627..665, 933..966, 1058..1209		

Seq. No.	27160	Seq. ID	OJ000150_32.0124.C27
Gene No.	56251	Strand	+
Start	1	End	328
Name	OJ000150_32.0124.C27.o1.np	Method	AAT/NAP
Start	1	End	328
GI	6063554	Score	116
Exons	1..328		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27160	Seq. ID	OJ000150_32.0124.C27
Gene No.	56252	Strand	+
Start	11137	End	15065
Name	OJ000150_32.0124.C27.o4.gs	Method	GENSCAN
Start	11137	End	15065

GI	none	Score	.6
Exons	11137..11323, 11713..12125, 12343..12402, 12668..12760, 13384..13479, 13696..13783, 14346..14413, 14556..15065		
Seq. No.	27160	Seq. ID	OJ000150_32.0124.C27
Gene No.	56253	Strand	+
Start	16292	End	18618
Name	OJ000150_32.0124.C27.o3.np	Method	AAT/NAP
Start	16292	End	18618
GI	2665536	Score	306
Exons	16292..16404, 17329..17498, 17858..17917, 17987..18104, 18388..18618		
GI Descrip.	(AF027808) HCF106 precursor protein [Zea mays]		
Seq. No.	27160	Seq. ID	OJ000150_32.0124.C27
Gene No.	56254	Strand	-
Start	59	End	1979
Name	OJ000150_32.0124.C27.o1.gs	Method	GENSCAN
Start	59	End	1979
GI	none	Score	.68
Exons	59..183, 1374..1564, 1938..1979		
Seq. No.	27160	Seq. ID	OJ000150_32.0124.C27
Gene No.	56255	Strand	-
Start	16134	End	16796
Name	OJ000150_32.0124.C27.o5.gs	Method	GENSCAN
Start	16134	End	16796
GI	none	Score	.78
Exons	16134..16199, 16431..16650, 16681..16796		
Seq. No.	27160	Seq. ID	OJ000150_32.0124.C27
Gene No.	56256	Strand	-
Start	17525	End	18415
Name	OJ000150_32.0124.C27.o2.tm	Method	TBLASTX:Maize
Start	12348	End	13779
GI	none	Score	96
Exons	12348..12413, 12349..12414, 12539..12592, 12540..12593, 12542..12598, 12665..12760, 12667..12771, 12668..12760, 12756..12821, 13363..13479, 13383..13481, 13383..13478, 13701..13754, 13702..13779		
Seq. No.	27160	Seq. ID	OJ000150_32.0124.C27
Gene No.	56256	Strand	-
Start	17525	End	18415
Name	OJ000150_32.0124.C27.o1.tm	Method	TBLASTX:Maize
Start	17385	End	18103
GI	none	Score	153
Exons	17385..17501, 17411..17500, 17855..17917, 17856..17918, 17857..17919, 17857..17919, 17984..18103, 17987..18103		
Seq. No.	27160	Seq. ID	OJ000150_32.0124.C27
Gene No.	56256	Strand	-
Start	17525	End	18415
Name	OJ000150_32.0124.C27.o1.gp	Method	AAT/GAP
Start	17525	End	18415
GI	none	Score	579
Exons	17525..17599, 18120..18415		



Seq. No.	27161	Seq. ID	OJ000150_32.0124.C30
Gene No.	56257	Strand	-
Start	208	End	380
Name	OJ000150_32.0124.C30.ol.gp	Method	AAT/GAP
Start	208	End	380
GI	LIB3433-026-P1-K1-C1	Score	258
Exons	208..380		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	27162	Seq. ID	OJ000150_32.0124.C34
Gene No.	56258	Strand	-
Start	185	End	299
Name	OJ000150_32.0124.C34.ol.gs	Method	GENSCAN
Start	185	End	299
GI	none	Score	.52
Exons	185..299		

Seq. No.	27163	Seq. ID	OJ000150_32.0124.C38
Gene No.	56259	Strand	+
Start	1	End	284
Name	OJ000150_32.0124.C38.ol.gp	Method	AAT/GAP
Start	1	End	284
GI	LIB3477-003-P1-K1-E9	Score	151
Exons	1..43, 199..284		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27164	Seq. ID	OJ000150_32.0124.C39
Gene No.	56260	Strand	-
Start	700	End	858
Name	OJ000150_32.0124.C39.ol.gs	Method	GENSCAN
Start	700	End	858
GI	none	Score	.81
Exons	700..797, 852..858		

Seq. No.	27165	Seq. ID	OJ000150_32.0124.C40
Gene No.	56261	Strand	+
Start	366	End	921
Name	OJ000150_32.0124.C40.ol.gs	Method	GENSCAN
Start	366	End	921
GI	none	Score	.56
Exons	366..466, 888..921		

Seq. No.	27166	Seq. ID	OJ000150_32.0124.C43
Gene No.	56262	Strand	-
Start	229	End	1409
Name	OJ000150_32.0124.C43.ol.gs	Method	GENSCAN
Start	229	End	1409
GI	none	Score	.59
Exons	229..344, 467..620, 881..948, 1077..1130, 1352..1409		

Seq. No.	27167	Seq. ID	OJ000150_32.0124.C44
Gene No.	56263	Strand	-
Start	441	End	523

Name	OJ000150_32.0124.C44.o1.gs	Method	GENSCAN
Start	441	End	523
GI	none	Score	.45
Exons	441..523		
Seq. No.	27168	Seq. ID	OJ000150_32.0124.C46
Gene No.	56264	Strand	+
Start	47	End	75
Name	OJ000150_32.0124.C46.o1.gs	Method	GENSCAN
Start	47	End	75
GI	none	Score	.49
Exons	47..75		
Seq. No.	27169	Seq. ID	OJ000150_32.0124.C49
Gene No.	56265	Strand	+
Start	1	End	725
Name	OJ000150_32.0124.C49.o1.np	Method	AAT/NAP
Start	1	End	725
GI	4544372	Score	433
Exons	1..725		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	27169	Seq. ID	OJ000150_32.0124.C49
Gene No.	56265	Strand	+
Start	1	End	725
Name	OJ000150_32.0124.C49.o1.tw	Method	TBLASTX:Wheat
Start	11	End	308
GI	none	Score	338
Exons	11..265, 12..308, 18..305		
Seq. No.	27169	Seq. ID	OJ000150_32.0124.C49
Gene No.	56265	Strand	+
Start	1	End	725
Name	OJ000150_32.0124.C49.o2.tm	Method	TBLASTX:Maize
Start	11	End	176
GI	none	Score	183
Exons	11..175, 12..176		
Seq. No.	27169	Seq. ID	OJ000150_32.0124.C49
Gene No.	56265	Strand	+
Start	1	End	725
Name	OJ000150_32.0124.C49.o1.tm	Method	TBLASTX:Maize
Start	177	End	635
GI	none	Score	534
Exons	177..635, 177..563, 326..634		
Seq. No.	27169	Seq. ID	OJ000150_32.0124.C49
Gene No.	56265	Strand	+
Start	1	End	725
Name	OJ000150_32.0124.C49.o1.ts	Method	TBLASTX:Soybean
Start	324	End	605
GI	none	Score	216
Exons	324..605, 362..454		
Seq. No.	27169	Seq. ID	OJ000150_32.0124.C49
Gene No.	56265	Strand	+

Start	1	End	725
Name	OJ000150_32.0124.C49.o2.tw	Method	TBLASTX:Wheat
Start	326	End	629
GI	none	Score	207
Exons	326..589, 327..629		
Seq. No.	27170	Seq. ID	OJ000150_32.0124.C50
Gene No.	56266	Strand	+
Start	1	End	580
Name	OJ000150_32.0124.C50.o1.np	Method	AAT/NAP
Start	1	End	580
GI	5903085	Score	268
Exons	1..199, 321..412, 501..580		
GI Descrip.	(AC008017) Putative GTP-binding protein [Arabidopsis thaliana]		
Seq. No.	27170	Seq. ID	OJ000150_32.0124.C50
Gene No.	56266	Strand	+
Start	1	End	580
Name	OJ000150_32.0124.C50.o1.tm	Method	TBLASTX:Maize
Start	2	End	419
GI	none	Score	251
Exons	2..199, 3..200, 3..200, 310..414, 318..413, 321..419		
Seq. No.	27170	Seq. ID	OJ000150_32.0124.C50
Gene No.	56266	Strand	+
Start	1	End	580
Name	OJ000150_32.0124.C50.o1.gs	Method	GENSCAN
Start	64	End	552
GI	none	Score	.61
Exons	64..199, 321..552		
Seq. No.	27170	Seq. ID	OJ000150_32.0124.C50
Gene No.	56266	Strand	+
Start	1	End	580
Name	OJ000150_32.0124.C50.o1.ts	Method	TBLASTX:Soybean
Start	114	End	577
GI	none	Score	95
Exons	114..200, 116..199, 310..432, 318..446, 500..577, 502..573		
Seq. No.	27171	Seq. ID	OJ000150_32.0124.C52
Gene No.	56267	Strand	+
Start	439	End	493
Name	OJ000150_32.0124.C52.o1.gs	Method	GENSCAN
Start	439	End	493
GI	none	Score	.74
Exons	439..493		
Seq. No.	27172	Seq. ID	OJ000150_32.0124.C53
Gene No.	56268	Strand	+
Start	84	End	289
Name	OJ000150_32.0124.C53.o1.gs	Method	GENSCAN
Start	84	End	289
GI	none	Score	.95
Exons	84..289		
Seq. No.	27173	Seq. ID	OJ000150_32.0124.C55
Gene No.	56269	Strand	-

Start	1	End	475
Name	OJ000150_32.0124.C55.o1.np	Method	AAT/NAP
Start	1	End	475
GI	5903085	Score	150
Exons	1..207, 346..475		
GI Descrip.	(AC008017) Putative GTP-binding protein [Arabidopsis thaliana]		

Seq. No.	27173	Seq. ID	OJ000150_32.0124.C55
Gene No.	56269	Strand	-
Start	1	End	475
Name	OJ000150_32.0124.C55.o1.tm	Method	TBLASTX:Maize
Start	67	End	462
GI	none	Score	151
Exons	67..216, 68..208, 345..404, 346..417, 346..408, 409..462		

Seq. No.	27173	Seq. ID	OJ000150_32.0124.C55
Gene No.	56269	Strand	-
Start	1	End	475
Name	OJ000150_32.0124.C55.o1.gs	Method	GENSCAN
Start	274	End	470
GI	none	Score	.4
Exons	274..470		

Seq. No.	27174	Seq. ID	OJ000150_32.0124.C56
Gene No.	56270	Strand	-
Start	1	End	628
Name	OJ000150_32.0124.C56.o1.np	Method	AAT/NAP
Start	1	End	566
GI	4105681	Score	1003
Exons	1..566		
GI Descrip.	(AF049348) unknown [Oryza sativa]		

Seq. No.	27174	Seq. ID	OJ000150_32.0124.C56
Gene No.	56270	Strand	-
Start	1	End	628
Name	OJ000150_32.0124.C56.o1.gp	Method	AAT/GAP
Start	44	End	628
GI	840_1.R1084	Score	1144
Exons	44..628		
GI Descrip.	'4105681 1.0e-141 (AF049348) unknown [Oryza sativa]'		

Seq. No.	27174	Seq. ID	OJ000150_32.0124.C56
Gene No.	56270	Strand	-
Start	1	End	628
Name	OJ000150_32.0124.C56.o1.gs	Method	GENSCAN
Start	52	End	566
GI	none	Score	.83
Exons	52..566		

Seq. No.	27175	Seq. ID	OJ000150_32.0124.C57
Gene No.	56271	Strand	+
Start	1	End	654
Name	OJ000150_32.0124.C57.o1.np	Method	AAT/NAP
Start	1	End	654
GI	4587571	Score	267
Exons	1..436, 529..654		
GI Descrip.	(AC006550) Belongs to the PF01027 Uncharacterized protein		

family UPF0005 with 7 transmembrane domains. [Arabidopsis thaliana]

Seq. No.	27175	Seq. ID	OJ000150_32.0124.C57
Gene No.	56271	Strand	+
Start	1	End	654
Name	OJ000150_32.0124.C57.ol.gs	Method	GENSCAN
Start	279	End	647
GI	none	Score	.83
Exons	279..436, 529..647		

Seq. No.	27175	Seq. ID	OJ000150_32.0124.C57
Gene No.	56272	Strand	-
Start	513	End	654
Name	OJ000150_32.0124.C57.ol.tm	Method	TBLASTX:Maize
Start	263	End	654
GI	none	Score	157
Exons	263..439, 274..414, 278..415, 526..654, 526..651		

Seq. No.	27175	Seq. ID	OJ000150_32.0124.C57
Gene No.	56272	Strand	-
Start	513	End	654
Name	OJ000150_32.0124.C57.ol.gp	Method	AAT/GAP
Start	513	End	654
GI	uC-osflcyp169c05a1	Score	237
Exons	513..654		
GI Descrip.	'3892058/gb AAC78271.1 AAC78271 3.0e-17 (AC002330) putative glutamate-/aspartate-binding peptide [Arabidopsis thaliana]'		

Seq. No.	27176	Seq. ID	OJ000150_32.0124.C59
Gene No.	56273	Strand	-
Start	1	End	335
Name	OJ000150_32.0124.C59.ol.gp	Method	AAT/GAP
Start	1	End	335
GI	840_1.R1084	Score	670
Exons	1..335		
GI Descrip.	'4105681 1.0e-141 (AF049348) unknown [Oryza sativa]'		

Seq. No.	27176	Seq. ID	OJ000150_32.0124.C59
Gene No.	56273	Strand	-
Start	1	End	335
Name	OJ000150_32.0124.C59.ol.np	Method	AAT/NAP
Start	1	End	335
GI	4105681	Score	678
Exons	1..335		
GI Descrip.	(AF049348) unknown [Oryza sativa]		

Seq. No.	27176	Seq. ID	OJ000150_32.0124.C59
Gene No.	56273	Strand	-
Start	1	End	335
Name	OJ000150_32.0124.C59.ol.gs	Method	GENSCAN
Start	27	End	250
GI	none	Score	.66
Exons	27..250		

Seq. No.	27177	Seq. ID	OJ000150_25.0124.C1
Gene No.	56274	Strand	-

Start	192	End	452
Name	OJ000150_25.0124.C1.o1.gp	Method	AAT/GAP
Start	192	End	452
GI	2653_1.R1084	Score	427
Exons	192..452		
GI Descrip.	'11998/emb CAA33959  5.0e-35 (X15901) ORF85 [Oryza sativa] >gi_226619_prf_1603356AR ORF 85A [Oryza sativa]'		

  

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56275	Strand	+
Start	332	End	801
Name	OJ000150_25.0124.C2.o1.gp	Method	AAT/GAP
Start	332	End	801
GI	uC-osflcyp097b05b1	Score	907
Exons	332..801		
GI Descrip.	'140503/sp P12173 YCTI_ORYSA 3.0e-39 HYPOTHETICAL 14 KD PROTEIN IN TRNI INTRON (ORF 133) >gi_82518_pir_JQ0279 hypothetical 14.5K protein (trnI intron) - rice chloroplast >gi_12041_emb_CAA33945_ (X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_12061_emb_CAA33915_ (X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_226660_prf_1603356CL trnI intron ORF 133 [Oryza]'		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o4.ts	Method	TBLASTX:Soybean
Start	1	End	336
GI	none	Score	34
Exons	1..21, 13..114, 21..116, 22..114, 104..169, 107..169, 120..173, 251..286, 252..287, 290..334, 292..336, 297..335		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o5.tc	Method	TBLASTX:Cress
Start	21	End	369
GI	none	Score	129
Exons	21..116, 23..115, 104..190, 120..191, 220..273, 222..269, 243..284, 245..289, 275..304, 282..368, 284..367, 292..369		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o1.tm	Method	TBLASTX:Maize
Start	24	End	535
GI	none	Score	301
Exons	24..215, 24..215, 26..220, 208..288, 222..284, 225..305, 234..533, 263..535, 263..535		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o3.ts	Method	TBLASTX:Soybean
Start	747	End	991
GI	none	Score	199
Exons	747..878, 747..884, 748..879, 868..924, 869..922, 931..990,		

931..990, 932..991, 932..991

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o1.tc	Method	TBLASTX:Cress
Start	1010	End	1567
GI	none	Score	80
Exons	1010..1039, 1038..1127, 1040..1129, 1041..1130, 1074..1397, 1105..1398, 1126..1395, 1131..1397, 1386..1565, 1393..1566, 1394..1567, 1394..1567		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o1.tw	Method	TBLASTX:Wheat
Start	1140	End	2854
GI	none	Score	143
Exons	1140..1220, 2485..2589, 2501..2590, 2501..2590, 2502..2591, 2684..2707, 2684..2707, 2685..2708, 2692..2853, 2693..2854, 2697..2852		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o1.ts	Method	TBLASTX:Soybean
Start	1330	End	1966
GI	none	Score	367
Exons	1330..1590, 1332..1574, 1566..1694, 1569..1703, 1573..1719, 1576..1698, 1619..1699, 1688..1894, 1689..1880, 1696..1884, 1836..1964, 1879..1965, 1880..1966, 1880..1966		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o2.gp	Method	AAT/GAP
Start	1447	End	2388
GI	688_1.R1084	Score	1842
Exons	1447..2388		
GI Descrip.	'226661/prf  1603356CM 6.0e-54 trnA intron ORF 109 [Oryza sativa]'		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o2.tc	Method	TBLASTX:Cress
Start	1580	End	1954
GI	none	Score	155
Exons	1580..1693, 1582..1692, 1619..1693, 1689..1883, 1690..1884, 1691..1894, 1879..1953, 1880..1954		

Seq. No.	27178	Seq. ID	OJ000150_25.0124.C2
Gene No.	56276	Strand	-
Start	1447	End	2856
Name	OJ000150_25.0124.C2.o3.tc	Method	TBLASTX:Cress
Start	2065	End	2426
GI	none	Score	40

Exons 2065..2100, 2071..2100, 2072..2104, 2076..2189, 2088..2198,  
2101..2199, 2101..2214, 2114..2215, 2162..2299, 2218..2298,  
2250..2306, 2258..2299, 2301..2426, 2301..2426

Seq. No. 27178 Seq. ID OJ000150\_25.0124.C2  
Gene No. 56276 Strand -  
Start 1447 End 2856  
Name OJ000150\_25.0124.C2.o2.ts Method TBLASTX:Soybean  
Start 2218 End 2856  
GI none Score 133  
Exons 2218..2334, 2219..2299, 2250..2306, 2313..2342, 2325..2378,  
2338..2391, 2339..2392, 2381..2473, 2384..2461, 2389..2463,  
2474..2527, 2475..2525, 2476..2538, 2476..2526, 2538..2588,  
2563..2592, 2684..2740, 2685..2741, 2686..2742, 2747..2854,  
2751..2855, 2755..2856

Seq. No. 27178 Seq. ID OJ000150\_25.0124.C2  
Gene No. 56276 Strand -  
Start 1447 End 2856  
Name OJ000150\_25.0124.C2.o2.tm Method TBLASTX:Maize  
Start 2426 End 2591  
GI none Score 267  
Exons 2426..2590, 2437..2589, 2438..2590, 2439..2591

Seq. No. 27178 Seq. ID OJ000150\_25.0124.C2  
Gene No. 56276 Strand -  
Start 1447 End 2856  
Name OJ000150\_25.0124.C2.o4.tc Method TBLASTX:Cress  
Start 2435 End 2852  
GI none Score 191  
Exons 2435..2560, 2439..2561, 2440..2562, 2444..2563, 2493..2591,  
2563..2589, 2564..2590, 2685..2717, 2686..2721, 2692..2844,  
2693..2845, 2693..2845, 2697..2852, 2706..2852

Seq. No. 27179 Seq. ID OJ000150\_25.0124.C3  
Gene No. 56277 Strand +  
Start 2427 End 2861  
Name OJ000150\_25.0124.C3.o1.gp Method AAT/GAP  
Start 2427 End 2861  
GI 5886\_1.R1084 Score 840  
Exons 2427..2861  
GI Descrip. '11957/emb|X15901|CHOSXX 0.0e+00 Rice complete chloroplast  
genome'

Seq. No. 27179 Seq. ID OJ000150\_25.0124.C3  
Gene No. 56278 Strand +  
Start 15700 End 16072  
Name OJ000150\_25.0124.C3.o4.gp Method AAT/GAP  
Start 15700 End 16072  
GI LIB3431-005-P1-N1-A5 Score 695  
Exons 15700..16072  
GI Descrip. '131251/sp|P12094|PSBA\_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN  
(32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1)  
>gi\_72661\_pir\_FMRZ32 photosystem II protein D1 precursor - rice  
chloroplast >gi\_11958\_emb\_CAA34007\_(X15901) PSII 32kDa protein  
[Oryza sativa] >gi\_343212\_(M36191) Q-B protein (psbA) [Oryza  
sativa] >gi\_226249\_prf\_1503143A psbA gene [Oryza sativa]



>gi\_226406\_prf\_15'

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56279	Strand	-
Start	3008	End	3449
Name	OJ000150_25.0124.C3.o2.gp	Method	AAT/GAP
Start	3008	End	3449
GI	LIB3431-005-P1-N1-A5	Score	869
Exons	3008..3449		
GI Descrip.	'131251/sp P12094 PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir_FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_(X15901) PSII 32kDa protein [Oryza sativa] >gi_343212_(M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf_1503143A psbA gene [Oryza sativa] >gi_226406_prf_15'		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56280	Strand	-
Start	13547	End	13749
Name	OJ000150_25.0124.C3.o3.gp	Method	AAT/GAP
Start	13547	End	13749
GI	6012822	Score	337
Exons	13547..13749		
GI Descrip.	11957/emb X15901 CHOSXX 1.0e-52 Rice complete chloroplast genome		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o4.tm	Method	TBLASTX:Maize
Start	51	End	341
GI	none	Score	134
Exons	51..128, 52..129, 116..325, 126..332, 126..341, 127..336		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o1.tw	Method	TBLASTX:Wheat
Start	111	End	330
GI	none	Score	353
Exons	111..329, 111..329, 112..330		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o9.tc	Method	TBLASTX:Cress
Start	278	End	783
GI	none	Score	55
Exons	278..325, 278..316, 373..480, 377..454, 388..480, 437..631, 455..634, 456..632, 667..717, 668..718, 706..780, 727..783		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o14.ts	Method	TBLASTX:Soybean
Start	715	End	1038
GI	none	Score	82

Exons 715..765, 717..767, 862..951, 865..951, 866..952, 955..1038, 956..1036

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o3.tm	Method	TBLASTX:Maize
Start	744	End	1024
GI	none	Score	367
Exons	744..971, 744..953, 746..982, 746..970, 927..1022, 949..1023, 950..1024, 952..1023		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o5.tm	Method	TBLASTX:Maize
Start	2477	End	2747
GI	none	Score	256
Exons	2477..2698, 2477..2590, 2478..2699, 2596..2646, 2599..2646, 2688..2747, 2688..2747		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o1.ts	Method	TBLASTX:Soybean
Start	2818	End	16262
GI	none	Score	168
Exons	2818..3054, 2830..3060, 2837..3061, 2876..3061, 3193..3366, 3199..3366, 3200..3373, 3221..3376, 14219..14602, 14221..14550, 14292..14597, 14598..14705, 14608..14703, 14609..15880, 14637..15881, 15363..15887, 16018..16200, 16019..16243, 16020..16250, 16026..16262		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o7.tm	Method	TBLASTX:Maize
Start	2958	End	16122
GI	none	Score	175
Exons	2958..3068, 2958..3074, 2959..3069, 2996..3088, 3080..3145, 3085..3150, 3102..3167, 3121..3159, 3162..3188, 3163..3189, 3185..3241, 3196..3240, 3200..3241, 15838..15879, 15839..15895, 15839..15880, 15891..15917, 15892..15918, 15913..15978, 15921..15959, 15930..15995, 15935..16000, 15984..16121, 15992..16084, 16006..16122, 16012..16122		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o2.tc	Method	TBLASTX:Cress
Start	4175	End	4666
GI	none	Score	455
Exons	4175..4666, 4176..4592, 4336..4662		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290

Name	OJ000150_25.0124.C3.o9.ts	Method	TBLASTX:Soybean
Start	4262	End	4504
GI	none	Score	315
Exons	4262..4504, 4263..4502, 4328..4504		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o8.tc	Method	TBLASTX:Cress
Start	4686	End	5138
GI	none	Score	465
Exons	4686..5138, 4745..5023, 5063..5137		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o4.ts	Method	TBLASTX:Soybean
Start	4757	End	9465
GI	none	Score	425
Exons	4757..4897, 8964..9464, 8964..9464, 9040..9465		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o6.tm	Method	TBLASTX:Maize
Start	4772	End	9512
GI	none	Score	65
Exons	4772..4882, 9069..9224, 9070..9210, 9318..9512, 9319..9456		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o6.ts	Method	TBLASTX:Soybean
Start	4899	End	5256
GI	none	Score	426
Exons	4899..5255, 4915..5256, 4949..5254		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o10.tc	Method	TBLASTX:Cress
Start	5313	End	5641
GI	none	Score	278
Exons	5313..5627, 5327..5626, 5576..5641		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o8.ts	Method	TBLASTX:Soybean
Start	5334	End	5620
GI	none	Score	269
Exons	5334..5618, 5334..5615, 5336..5620		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o2.ts	Method	TBLASTX:Soybean

Start	7213	End	8167
GI	none	Score	72
Exons	7213..7302, 7214..7249, 7300..7500, 7307..7501, 7310..7504, 7499..7663, 7504..7683, 7541..7741, 7543..7707, 7784..8050, 7792..8166, 7796..8167, 8084..8167		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o6.tc	Method	TBLASTX:Cress
Start	7532	End	8169
GI	none	Score	116
Exons	7532..7663, 7534..7710, 7541..7738, 7543..7710, 7809..7898, 7823..7900, 7837..7923, 7939..8169, 7940..8167, 7987..8169		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o2.tm	Method	TBLASTX:Maize
Start	8313	End	8764
GI	none	Score	585
Exons	8313..8762, 8340..8762, 8342..8764, 8609..8764		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o5.tc	Method	TBLASTX:Cress
Start	8385	End	8843
GI	none	Score	349
Exons	8385..8843, 8488..8841		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o10.ts	Method	TBLASTX:Soybean
Start	8430	End	8684
GI	none	Score	219
Exons	8430..8666, 8433..8684, 8438..8668, 8494..8682		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o4.tc	Method	TBLASTX:Cress
Start	8895	End	9434
GI	none	Score	345
Exons	8895..9338, 8896..9345, 8940..9353, 8962..9342, 9059..9349, 9324..9434		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o12.tc	Method	TBLASTX:Cress
Start	9435	End	9716
GI	none	Score	206
Exons	9435..9596, 9436..9594, 9595..9708, 9596..9709, 9596..9709, 9642..9716		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o12.ts	Method	TBLASTX:Soybean
Start	9466	End	9741
GI	none	Score	291
Exons	9466..9741, 9467..9562, 9498..9734		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o5.ts	Method	TBLASTX:Soybean
Start	9742	End	11243
GI	none	Score	106
Exons	9742..9885, 9748..9882, 9759..9884, 9884..9925, 9885..9929, 9967..10245, 9977..10258, 9978..10280, 10318..10371, 10321..10365, 10398..10433, 10690..11031, 10691..11032, 10809..11042, 11172..11243		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o7.tc	Method	TBLASTX:Cress
Start	9742	End	10259
GI	none	Score	158
Exons	9742..9885, 9744..9884, 9885..9902, 9972..10061, 9983..10060, 10055..10258, 10056..10259, 10056..10259		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o1.tm	Method	TBLASTX:Maize
Start	10049	End	12340
GI	none	Score	615
Exons	10049..10108, 10078..10494, 10079..10495, 10080..10496, 12287..12340		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o2.tw	Method	TBLASTX:Wheat
Start	10266	End	10502
GI	none	Score	65
Exons	10266..10310, 10266..10310, 10309..10362, 10310..10363, 10314..10364, 10320..10367, 10366..10455, 10376..10447, 10447..10500, 10451..10501, 10451..10501, 10455..10502		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o11.tc	Method	TBLASTX:Cress
Start	10708	End	11033
GI	none	Score	309
Exons	10708..11031, 10708..10743, 10709..11032, 10803..11033, 10809..11033		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
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Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o13.tc	Method	TBLASTX:Cress
Start	11178	End	11403
GI	none	Score	187
Exons	11178..11402, 11199..11402, 11206..11403		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o11.ts	Method	TBLASTX:Soybean
Start	11351	End	11612
GI	none	Score	81
Exons	11351..11512, 11352..11513, 11352..11534, 11353..11520, 11517..11612, 11518..11610		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o7.ts	Method	TBLASTX:Soybean
Start	12071	End	12321
GI	none	Score	128
Exons	12071..12196, 12071..12196, 12073..12204, 12082..12204, 12195..12320, 12196..12321, 12197..12319		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o13.ts	Method	TBLASTX:Soybean
Start	12323	End	12518
GI	none	Score	196
Exons	12323..12511, 12324..12512, 12324..12518		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o1.tc	Method	TBLASTX:Cress
Start	12423	End	14827
GI	none	Score	137
Exons	12423..12551, 12423..12542, 12425..12598, 12616..12816, 12619..12810, 12654..12851, 12803..13021, 12808..13146, 12809..13153, 12810..13148, 12810..13154, 13076..13156, 14124..14348, 14143..14550, 14144..14602, 14604..14705, 14606..14827, 14606..14827		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o3.ts	Method	TBLASTX:Soybean
Start	12611	End	14141
GI	none	Score	306
Exons	12611..13033, 12613..13155, 12613..13233, 12636..13247, 12654..13253, 13189..13248, 13328..13363, 13364..13399, 13415..13453, 13611..13694, 13617..13691, 13624..13692, 13773..13835, 13786..13854, 13788..13820, 13886..13918, 13888..13923, 13971..14033, 13972..14010, 14018..14068, 14019..14141		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o3.tc	Method	TBLASTX:Cress
Start	14939	End	15394
GI	none	Score	138
Exons	14939..15094, 14942..15319, 14946..15320, 15330..15392, 15332..15394		

Seq. No.	27179	Seq. ID	OJ000150_25.0124.C3
Gene No.	56281	Strand	-
Start	16219	End	16290
Name	OJ000150_25.0124.C3.o5.gp	Method	AAT/GAP
Start	16219	End	16290
GI	5886_1.R1084	Score	144
Exons	16219..16290		
GI Descrip.	'11957/emb X15901 CHOSXX 0.0e+00 Rice complete chloroplast genome'		

Seq. No.	27180	Seq. ID	OJ000150_25.0124.C4
Gene No.	56282	Strand	-
Start	69	End	680
Name	OJ000150_25.0124.C4.o1.tc	Method	TBLASTX:Cress
Start	69	End	677
GI	none	Score	235
Exons	69..293, 88..495, 89..547, 549..650, 551..676, 553..648, 630..677		

Seq. No.	27180	Seq. ID	OJ000150_25.0124.C4
Gene No.	56282	Strand	-
Start	69	End	680
Name	OJ000150_25.0124.C4.o1.ts	Method	TBLASTX:Soybean
Start	164	End	680
GI	none	Score	405
Exons	164..547, 166..495, 237..542, 543..650, 553..648, 554..679, 582..680		

Seq. No.	27181	Seq. ID	OJ000150_25.0124.C5
Gene No.	56283	Strand	-
Start	3	End	590
Name	OJ000150_25.0124.C5.o2.tm	Method	TBLASTX:Maize
Start	3	End	402
GI	none	Score	57
Exons	3..68, 7..69, 9..71, 101..178, 105..176, 106..177, 182..244, 185..247, 187..252, 224..265, 259..351, 263..319, 324..380, 326..379, 331..384, 331..402		

Seq. No.	27181	Seq. ID	OJ000150_25.0124.C5
Gene No.	56283	Strand	-
Start	3	End	590
Name	OJ000150_25.0124.C5.o1.tw	Method	TBLASTX:Wheat
Start	176	End	577
GI	none	Score	148
Exons	176..301, 179..322, 201..347, 341..556, 341..544, 503..577, 525..575, 526..576		

Seq. No.	27181	Seq. ID	OJ000150_25.0124.C5
Gene No.	56283	Strand	
Start	3	End	590
Name	OJ000150_25.0124.C5.o1.tm	Method	TBLASTX:Maize
Start	438	End	590
GI	none	Score	79
Exons	438..479, 438..482, 439..486, 482..535, 482..535, 483..542, 521..589, 537..590, 543..590		

Seq. No.	27182	Seq. ID	OJ000150_25.0124.C6
Gene No.	56284	Strand	
Start	1	End	461
Name	OJ000150_25.0124.C6.o1.tm	Method	TBLASTX:Maize
Start	1	End	461
GI	none	Score	156
Exons	1..117, 6..116, 112..144, 117..146, 140..232, 140..235, 141..239, 315..362, 322..420, 323..418, 411..461, 416..460, 417..461		

Seq. No.	27182	Seq. ID	OJ000150_25.0124.C6
Gene No.	56284	Strand	
Start	1	End	461
Name	OJ000150_25.0124.C6.o1.tw	Method	TBLASTX:Wheat
Start	1	End	247
GI	none	Score	135
Exons	1..180, 3..116, 115..156, 176..247, 179..244		

Seq. No.	27183	Seq. ID	OJ000150_25.0124.C8
Gene No.	56285	Strand	+
Start	1	End	386
Name	OJ000150_25.0124.C8.o1.gp	Method	AAT/GAP
Start	1	End	386
GI	7528_1.R1084	Score	739
Exons	1..386		
GI Descrip.	'131205/sp P12186 PSAI_ORYSA 9.0e-13 PHOTOSYSTEM I REACTION CENTRE SUBUNIT VIII (PSI-I) >gi_72677_pir_A1RZI photosystem I protein psal - rice chloroplast >gi_11996_emb_CAA33957_ (X15901) ORF36 [Oryza sativa] >gi_226617_prf_1603356AP photosystem I small peptide [Oryza sativa]'		

Seq. No.	27183	Seq. ID	OJ000150_25.0124.C8
Gene No.	56285	Strand	+
Start	1	End	386
Name	OJ000150_25.0124.C8.o1.tm	Method	TBLASTX:Maize
Start	5	End	331
GI	none	Score	111
Exons	5..79, 5..79, 6..80, 83..181, 83..181, 170..247, 170..250, 183..269, 217..315, 239..316, 242..331, 246..317		

Seq. No.	27183	Seq. ID	OJ000150_25.0124.C8
Gene No.	56286	Strand	
Start	413	End	585
Name	OJ000150_25.0124.C8.o1.tc	Method	TBLASTX:Cress
Start	413	End	585
GI	none	Score	166
Exons	413..583, 414..584, 414..584, 415..585		



Seq. No.	27184	Seq. ID	OJ000150_25.0124.C11
Gene No.	56287	Strand	
Start	1	End	442
Name	OJ000150_25.0124.C11.o1.tm	Method	TBLASTX:Maize
Start	1	End	360
GI	none	Score	562
Exons	1..330, 3..329, 5..331, 301..360		

Seq. No.	27184	Seq. ID	OJ000150_25.0124.C11
Gene No.	56287	Strand	
Start	1	End	442
Name	OJ000150_25.0124.C11.o1.ts	Method	TBLASTX:Soybean
Start	38	End	442
GI	none	Score	56
Exons	38..91, 44..88, 129..431, 151..432, 164..442		

Seq. No.	27184	Seq. ID	OJ000150_25.0124.C11
Gene No.	56287	Strand	
Start	1	End	442
Name	OJ000150_25.0124.C11.o1.tc	Method	TBLASTX:Cress
Start	150	End	425
GI	none	Score	449
Exons	150..425, 151..420		

Seq. No.	27185	Seq. ID	OJ000150_25.0124.C12
Gene No.	56288	Strand	
Start	5	End	430
Name	OJ000150_25.0124.C12.o1.tc	Method	TBLASTX:Cress
Start	5	End	430
GI	none	Score	225
Exons	5..199, 37..237, 43..234, 255..428, 302..430, 311..430		

Seq. No.	27185	Seq. ID	OJ000150_25.0124.C12
Gene No.	56288	Strand	
Start	5	End	430
Name	OJ000150_25.0124.C12.o3.ts	Method	TBLASTX:Soybean
Start	10	End	240
GI	none	Score	235
Exons	10..240, 10..240		

Seq. No.	27185	Seq. ID	OJ000150_25.0124.C12
Gene No.	56289	Strand	
Start	339	End	532
Name	OJ000150_25.0124.C12.o2.ts	Method	TBLASTX:Soybean
Start	339	End	532
GI	none	Score	280
Exons	339..530, 341..532, 342..530		

Seq. No.	27185	Seq. ID	OJ000150_25.0124.C12
Gene No.	56290	Strand	
Start	533	End	782
Name	OJ000150_25.0124.C12.o1.ts	Method	TBLASTX:Soybean
Start	533	End	782
GI	none	Score	204
Exons	533..658, 534..656, 649..771, 649..780, 657..782, 657..782		

Seq. No.	27186	Seq. ID	OJ000150_25.0124.C13
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Gene No.	56291	Strand	-
Start	772	End	957
Name	OJ000150_25.0124.C13.o2.tm	Method	TBLASTX:Maize
Start	84	End	325
GI	none	Score	62
Exons	84..128, 85..129, 87..128, 130..324, 131..325, 133..324		
Seq. No.	27186	Seq. ID	OJ000150_25.0124.C13
Gene No.	56291	Strand	-
Start	772	End	957
Name	OJ000150_25.0124.C13.o1.tc	Method	TBLASTX:Cress
Start	262	End	957
GI	none	Score	67
Exons	262..315, 262..315, 359..433, 367..438, 368..436, 490..528, 491..955, 492..956, 493..957, 580..957		
Seq. No.	27186	Seq. ID	OJ000150_25.0124.C13
Gene No.	56291	Strand	-
Start	772	End	957
Name	OJ000150_25.0124.C13.o1.ts	Method	TBLASTX:Soybean
Start	399	End	957
GI	none	Score	47
Exons	399..434, 406..435, 464..955, 465..956, 475..957, 577..957		
Seq. No.	27186	Seq. ID	OJ000150_25.0124.C13
Gene No.	56291	Strand	-
Start	772	End	957
Name	OJ000150_25.0124.C13.o1.tm	Method	TBLASTX:Maize
Start	491	End	956
GI	none	Score	449
Exons	491..955, 492..956		
Seq. No.	27186	Seq. ID	OJ000150_25.0124.C13
Gene No.	56291	Strand	-
Start	772	End	957
Name	OJ000150_25.0124.C13.o1.gp	Method	AAT/GAP
Start	772	End	957
GI	uC-osflcyp011b01b1	Score	360
Exons	772..957		
GI Descrip.	'343210 5.0e-78 (M35995) apocytochrome b6 (alt.) [Oryza sativa] >gi_226762_prf_1604469A cytochrome b6 [Oryza sativa]'		
Seq. No.	27187	Seq. ID	OJ000150_25.0124.C14
Gene No.	56292	Strand	-
Start	858	End	1476
Name	OJ000150_25.0124.C14.o3.tc	Method	TBLASTX:Cress
Start	1	End	431
GI	none	Score	111
Exons	1..81, 3..77, 113..235, 142..234, 234..314, 234..314, 346..426, 347..427, 348..431, 351..428		
Seq. No.	27187	Seq. ID	OJ000150_25.0124.C14
Gene No.	56292	Strand	-
Start	858	End	1476
Name	OJ000150_25.0124.C14.o2.tc	Method	TBLASTX:Cress
Start	516	End	924
GI	none	Score	424

Exons 516..923, 516..923, 736..924

Seq. No.	27187	Seq. ID	OJ000150_25.0124.C14
Gene No.	56292	Strand	-
Start	858	End	1476
Name	OJ000150_25.0124.C14.o1.tm	Method	TBLASTX:Maize
Start	805	End	1119
GI	none	Score	513
Exons	805..1119, 807..1118		

Seq. No.	27187	Seq. ID	OJ000150_25.0124.C14
Gene No.	56292	Strand	-
Start	858	End	1476
Name	OJ000150_25.0124.C14.o1.ts	Method	TBLASTX:Soybean
Start	815	End	1259
GI	none	Score	106
Exons	815..916, 815..1258, 819..1259, 820..1257, 953..1258		

Seq. No.	27187	Seq. ID	OJ000150_25.0124.C14
Gene No.	56292	Strand	-
Start	858	End	1476
Name	OJ000150_25.0124.C14.o1.gp	Method	AAT/GAP
Start	858	End	1410
GI	2896_1.R1084	Score	1023
Exons	858..1410		
GI Descrip.	'131271/sp P12157 PSBB_ORYSA 2.0e-88 PHOTOSYSTEM II P680 CHLOROPHYLL A APOPROTEIN (CP-47 PROTEIN) >gi_72705_pir_QJRZ6A photosystem II chlorophyll a-binding protein psbB - rice chloroplast >gi_12013_emb_CAA33973_(X15901) PSII 47kDa protein [Oryza sativa] >gi_226634_prf_1603356BH photosystem II 47kD protein [Oryza sativa]'		

Seq. No.	27187	Seq. ID	OJ000150_25.0124.C14
Gene No.	56292	Strand	-
Start	858	End	1476
Name	OJ000150_25.0124.C14.o1.tc	Method	TBLASTX:Cress
Start	926	End	1476
GI	none	Score	472
Exons	926..1141, 930..1331, 934..1290, 953..1333, 1308..1475, 1329..1469, 1330..1476		

Seq. No.	27187	Seq. ID	OJ000150_25.0124.C14
Gene No.	56292	Strand	-
Start	858	End	1476
Name	OJ000150_25.0124.C14.o1.tw	Method	TBLASTX:Wheat
Start	938	End	1368
GI	none	Score	652
Exons	938..1141, 939..1367, 939..1367, 1324..1368		

Seq. No.	27187	Seq. ID	OJ000150_25.0124.C14
Gene No.	56292	Strand	-
Start	858	End	1476
Name	OJ000150_25.0124.C14.o2.tm	Method	TBLASTX:Maize
Start	1122	End	1331
GI	none	Score	82
Exons	1122..1187, 1191..1331, 1193..1330		

Seq. No.	27188	Seq. ID	OJ000150_25.0124.C15
Gene No.	56293	Strand	+
Start	45	End	624
Name	OJ000150_25.0124.C15.o1.gp	Method	AAT/GAP
Start	45	End	582
GI	2653_1.R1084	Score	1032
Exons	45..582		
GI Descrip.	'11998/emb CAA33959  5.0e-35 (X15901) ORF85 [Oryza sativa] >gi_226619_prf_1603356AR ORF 85A [Oryza sativa]'		

Seq. No.	27188	Seq. ID	OJ000150_25.0124.C15
Gene No.	56293	Strand	+
Start	45	End	624
Name	OJ000150_25.0124.C15.o1.tm	Method	TBLASTX:Maize
Start	265	End	624
GI	none	Score	39
Exons	265..297, 273..293, 288..335, 289..336, 290..334, 333..356, 441..578, 442..624, 442..576, 444..581		

Seq. No.	27189	Seq. ID	OJ000150_25.0124.C17
Gene No.	56294	Strand	-
Start	724	End	966
Name	OJ000150_25.0124.C17.o2.tm	Method	TBLASTX:Maize
Start	3	End	326
GI	none	Score	80
Exons	3..62, 4..69, 4..66, 23..73, 46..171, 59..175, 62..169, 99..221, 171..326, 171..323		

Seq. No.	27189	Seq. ID	OJ000150_25.0124.C17
Gene No.	56294	Strand	-
Start	724	End	966
Name	OJ000150_25.0124.C17.o1.tc	Method	TBLASTX:Cress
Start	120	End	453
GI	none	Score	51
Exons	120..158, 125..163, 146..217, 147..221, 177..221, 270..335, 279..332, 280..333, 307..444, 311..451, 322..453, 323..451		

Seq. No.	27189	Seq. ID	OJ000150_25.0124.C17
Gene No.	56294	Strand	-
Start	724	End	966
Name	OJ000150_25.0124.C17.o1.ts	Method	TBLASTX:Soybean
Start	344	End	502
GI	none	Score	242
Exons	344..502, 347..502		

Seq. No.	27189	Seq. ID	OJ000150_25.0124.C17
Gene No.	56294	Strand	-
Start	724	End	966
Name	OJ000150_25.0124.C17.o1.tm	Method	TBLASTX:Maize
Start	381	End	966
GI	none	Score	158
Exons	381..527, 388..528, 395..532, 415..531, 572..652, 572..652, 574..654, 635..706, 648..701, 649..705, 690..770, 703..807, 704..793, 785..835, 785..832, 848..877, 849..878, 873..965, 879..965, 880..966, 880..966		

Seq. No.	27189	Seq. ID	OJ000150_25.0124.C17
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Gene No.	56294	Strand	-
Start	724	End	966
Name	OJ000150_25.0124.C17.o1.gp	Method	AAT/GAP
Start	724	End	966
GI	uC-osf1M202088b07a1	Score	464
Exons	724..966		
GI Descrip.	'11957/emb X15901 CHOSXX 2.0e-52 Rice complete chloroplast genome'		

Seq. No.	27190	Seq. ID	OJ000150_25.0124.C18
Gene No.	56295	Strand	
Start	3	End	643
Name	OJ000150_25.0124.C18.o1.tm	Method	TBLASTX:Maize
Start	3	End	643
GI	none	Score	281
Exons	3..200, 3..209, 4..210, 206..241, 209..328, 210..239, 233..325, 234..332, 244..336, 408..455, 415..513, 416..514, 509..586, 509..586, 510..587, 523..591, 584..643, 585..638, 586..642		

Seq. No.	27190	Seq. ID	OJ000150_25.0124.C18
Gene No.	56295	Strand	
Start	3	End	643
Name	OJ000150_25.0124.C18.o1.ts	Method	TBLASTX:Soybean
Start	61	End	328
GI	none	Score	165
Exons	61..210, 83..244, 100..210, 200..250, 206..328, 207..323, 232..324		

Seq. No.	27190	Seq. ID	OJ000150_25.0124.C18
Gene No.	56295	Strand	
Start	3	End	643
Name	OJ000150_25.0124.C18.o1.tw	Method	TBLASTX:Wheat
Start	85	End	347
GI	none	Score	176
Exons	85..273, 92..202, 93..209, 189..242, 208..249, 261..347, 273..347		

Seq. No.	27191	Seq. ID	OJ000150_25.0124.C19
Gene No.	56296	Strand	+
Start	261	End	522
Name	OJ000150_25.0124.C19.o2.gp	Method	AAT/GAP
Start	261	End	522
GI	LIB3432-015-P1-K1-H8	Score	452
Exons	261..522		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-129 Rice complete chloroplast genome'		

Seq. No.	27191	Seq. ID	OJ000150_25.0124.C19
Gene No.	56297	Strand	-
Start	1	End	178
Name	OJ000150_25.0124.C19.o1.gp	Method	AAT/GAP
Start	1	End	178
GI	2291_1.R1084	Score	271
Exons	1..178		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 3.0e-27 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein		

S3-[Oryza sativa] >gi\_226646\_prf\_1603356BW ribosomal protein S3  
[Oryza sativa]'

Seq. No.	27191	Seq. ID	OJ000150_25.0124.C19
Gene No.	56298	Strand	
Start	123	End	718
Name	OJ000150_25.0124.C19.o1.tw	Method	TBLASTX:Wheat
Start	123	End	528
GI	none	Score	47
Exons	123..155, 124..156, 203..283, 316..339, 323..448, 353..457, 454..528		210..272, 268..315, 314..337, 358..483, 358..453, 453..527,

Seq. No.	27191	Seq. ID	OJ000150_25.0124.C19
Gene No.	56298	Strand	
Start	123	End	718
Name	OJ000150_25.0124.C19.o1.ts	Method	TBLASTX:Soybean
Start	378	End	711
GI	none	Score	387
Exons	378..674, 387..608, 512..673, 647..709, 658..711, 659..709		

Seq. No.	27191	Seq. ID	OJ000150_25.0124.C19
Gene No.	56298	Strand	
Start	123	End	718
Name	OJ000150_25.0124.C19.o1.tm	Method	TBLASTX:Maize
Start	469	End	718
GI	none	Score	232
Exons	469..660, 471..674, 475..654, 650..718		512..673, 646..717, 647..718,

Seq. No.	27191	Seq. ID	OJ000150_25.0124.C19
Gene No.	56298	Strand	
Start	123	End	718
Name	OJ000150_25.0124.C19.o1.tc	Method	TBLASTX:Cress
Start	471	End	718
GI	none	Score	288
Exons	471..674, 477..659, 515..673, 646..717, 647..718, 650..718		

Seq. No.	27191	Seq. ID	OJ000150_25.0124.C19
Gene No.	56298	Strand	
Start	123	End	718
Name	OJ000150_25.0124.C19.o2.tw	Method	TBLASTX:Wheat
Start	560	End	718
GI	none	Score	169
Exons	560..673, 561..674, 646..717, 647..718, 650..718		

Seq. No.	27192	Seq. ID	OJ000150_25.0124.C20
Gene No.	56299	Strand	+
Start	1563	End	1764
Name	OJ000150_25.0124.C20.o3.gp	Method	AAT/GAP
Start	1563	End	1764
GI	LIB3432-015-P1-K1-H8	Score	368
Exons	1563..1764		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-129 Rice complete chloroplast genome'		

Seq. No.	27192	Seq. ID	OJ000150_25.0124.C20
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Gene No. 56300 Strand -  
 Start 48 End 361  
 Name OJ000150\_25.0124.C20.o1.gp Method AAT/GAP  
 Start 48 End 361  
 GI 3073\_1.R1084 Score 598  
 Exons 48..361  
 GI Descrip. '133936/sp|P12146|RR3\_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL  
 PROTEIN S3 >gi\_70867\_pir\_R3RZ3 ribosomal protein S3 - rice  
 chloroplast >gi\_12025\_emb\_CAA33934\_ (X15901) ribosomal protein  
 S3 [Oryza sativa] >gi\_226646\_prf\_\_1603356BW ribosomal protein S3  
 [Oryza sativa]'

Seq. No. 27192 Seq. ID OJ000150\_25.0124.C20  
 Gene No. 56301 Strand -  
 Start 376 End 1480  
 Name OJ000150\_25.0124.C20.o3.tw Method TBLASTX:Wheat  
 Start 48 End 153  
 GI none Score 59  
 Exons 48..83, 48..152, 49..153, 53..145, 54..104

Seq. No. 27192 Seq. ID OJ000150\_25.0124.C20  
 Gene No. 56301 Strand -  
 Start 376 End 1480  
 Name OJ000150\_25.0124.C20.o1.tm Method TBLASTX:Maize  
 Start 53 End 634  
 GI none Score 874  
 Exons 53..625, 53..160, 55..603, 212..610, 405..623, 602..634

Seq. No. 27192 Seq. ID OJ000150\_25.0124.C20  
 Gene No. 56301 Strand -  
 Start 376 End 1480  
 Name OJ000150\_25.0124.C20.o1.ts Method TBLASTX:Soybean  
 Start 56 End 547  
 GI none Score 78  
 Exons 56..163, 167..547, 178..546, 236..547

Seq. No. 27192 Seq. ID OJ000150\_25.0124.C20  
 Gene No. 56301 Strand -  
 Start 376 End 1480  
 Name OJ000150\_25.0124.C20.o1.tc Method TBLASTX:Cress  
 Start 188 End 1422  
 GI none Score 455  
 Exons 188..562, 205..561, 233..604, 369..611, 684..731, 701..742,  
 853..915, 894..956, 1024..1068, 1054..1092, 1064..1090,  
 1211..1303, 1218..1307, 1300..1362, 1300..1344, 1381..1422,  
 1394..1414

Seq. No. 27192 Seq. ID OJ000150\_25.0124.C20  
 Gene No. 56301 Strand -  
 Start 376 End 1480  
 Name OJ000150\_25.0124.C20.o2.gp Method AAT/GAP  
 Start 376 End 1480  
 GI 2291\_1.R1084 Score 2153  
 Exons 376..1480  
 GI Descrip. '133936/sp|P12146|RR3\_ORYSA 3.0e-27 CHLOROPLAST 30S RIBOSOMAL  
 PROTEIN S3 >gi\_70867\_pir\_R3RZ3 ribosomal protein S3 - rice  
 chloroplast >gi\_12025\_emb\_CAA33934\_ (X15901) ribosomal protein

S3 [Oryza sativa] >gi\_226646\_prf\_1603356BW ribosomal protein S3  
[Oryza sativa].'

Seq. No.	27192	Seq. ID	OJ000150_25.0124.C20
Gene No.	56301	Strand	-
Start	376	End	1480
Name	OJ000150_25.0124.C20.o2.tm	Method	TBLASTX:Maize
Start	692	End	1097
GI	none	Score	69
Exons	692..751, 693..773, 774..935, 781..939, 782..841, 793..927, 809..1066, 831..938, 896..1066, 1024..1071, 1030..1071, 1064..1096, 1068..1097		

Seq. No.	27192	Seq. ID	OJ000150_25.0124.C20
Gene No.	56301	Strand	-
Start	376	End	1480
Name	OJ000150_25.0124.C20.o1.tw	Method	TBLASTX:Wheat
Start	704	End	1338
GI	none	Score	35
Exons	704..751, 705..737, 771..941, 781..927, 781..951, 809..1018, 831..1010, 899..1012, 1020..1127, 1025..1132, 1028..1141, 1126..1212, 1127..1213, 1129..1203, 1160..1336, 1165..1215, 1180..1338, 1188..1337		

Seq. No.	27192	Seq. ID	OJ000150_25.0124.C20
Gene No.	56301	Strand	-
Start	376	End	1480
Name	OJ000150_25.0124.C20.o3.tm	Method	TBLASTX:Maize
Start	1138	End	1461
GI	none	Score	44
Exons	1138..1206, 1157..1450, 1162..1194, 1212..1451, 1212..1460, 1213..1461		

Seq. No.	27192	Seq. ID	OJ000150_25.0124.C20
Gene No.	56302	Strand	-
Start	1425	End	1761
Name	OJ000150_25.0124.C20.o2.tw	Method	TBLASTX:Wheat
Start	1425	End	1761
GI	none	Score	47
Exons	1425..1457, 1426..1458, 1505..1585, 1512..1574, 1570..1617, 1616..1639, 1618..1641, 1655..1759, 1660..1761, 1660..1755		

Seq. No.	27193	Seq. ID	OJ000150_25.0124.C21
Gene No.	56303	Strand	-
Start	1	End	522
Name	OJ000150_25.0124.C21.o1.tc	Method	TBLASTX:Cress
Start	1	End	522
GI	none	Score	62
Exons	1..42, 2..37, 43..117, 43..135, 44..139, 45..131, 51..149, 136..522, 136..522		

Seq. No.	27193	Seq. ID	OJ000150_25.0124.C21
Gene No.	56303	Strand	-
Start	1	End	522
Name	OJ000150_25.0124.C21.o1.ts	Method	TBLASTX:Soybean
Start	16	End	491
GI	none	Score	45



Exons 16..48, 43..105, 43..135, 44..139, 45..131, 119..406, 136..489, 136..483, 456..491

Seq. No.	27193	Seq. ID	OJ000150_25.0124.C21
Gene No.	56303	Strand	
Start	1	End	522
Name	OJ000150_25.0124.C21.o1.tm	Method	TBLASTX:Maize
Start	75	End	522
GI	none	Score	688
Exons	75..521, 76..522, 76..522		

Seq. No.	27193	Seq. ID	OJ000150_25.0124.C21
Gene No.	56303	Strand	
Start	1	End	522
Name	OJ000150_25.0124.C21.o1.tw	Method	TBLASTX:Wheat
Start	104	End	481
GI	none	Score	579
Exons	104..406, 105..479, 106..480, 106..480, 455..481		

Seq. No.	27194	Seq. ID	OJ000150_25.0124.C22
Gene No.	56304	Strand	+
Start	336	End	786
Name	OJ000150_25.0124.C22.o1.gp	Method	AAT/GAP
Start	336	End	786
GI	uC-osflcyp086a01b1	Score	902
Exons	336..786		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-135 Rice complete chloroplast genome'		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56305	Strand	+
Start	976	End	1426
Name	OJ000150_25.0124.C23.o1.gp	Method	AAT/GAP
Start	976	End	1426
GI	uC-osflcyp086a01b1	Score	902
Exons	976..1426		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-135 Rice complete chloroplast genome'		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56306	Strand	+
Start	1507	End	2753
Name	OJ000150_25.0124.C23.o2.gp	Method	AAT/GAP
Start	1507	End	2753
GI	uC-osflcyp086a01a1	Score	851
Exons	1507..1752, 2563..2753		
GI Descrip.	'133806/sp P25875 RR16_HORVU 5.0e-37 CHLOROPLAST 30S RIBOSOMAL PROTEIN S16 >gi_282999_pir_S28766 ribosomal protein S16 - barley chloroplast >gi_11603_emb_CAA36973_ (X52765) ribosomal protein rps16 [Hordeum vulgare]'		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56307	Strand	+
Start	3347	End	3615
Name	OJ000150_25.0124.C23.o3.gp	Method	AAT/GAP
Start	3347	End	3615
GI	40596_1.R1084	Score	450

Exons 3347..3615  
 GI Descrip. '11957/emb|X15901|CHOSXX 1.0e-104 Rice complete chloroplast genome'

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56308	Strand	+
Start	6060	End	6513
Name	OJ000150_25.0124.C23.o4.gp	Method	AAT/GAP
Start	6060	End	6513
GI	24570_1.R1084	Score	908
Exons	6060..6513		

GI Descrip. '131251/sp|P12094|PSBA\_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi\_72661\_pir\_FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi\_11958\_emb\_CAA34007\_(X15901) PSII 32kDa protein [Oryza sativa] >gi\_343212(M36191) Q-B protein (psbA) [Oryza sativa] >gi\_226249\_prf\_1503143A psbA gene [Oryza sativa] >gi\_226406\_prf\_15'

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56309	Strand	+
Start	6877	End	7240
Name	OJ000150_25.0124.C23.o5.gp	Method	AAT/GAP
Start	6877	End	7240
GI	5455469	Score	666
Exons	6877..7240		

GI Descrip. '131251/sp|P12094|PSBA\_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi\_72661\_pir\_FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi\_11958\_emb\_CAA34007\_(X15901) PSII 32kDa protein [Oryza sativa] >gi\_343212(M36191) Q-B protein (psbA) [Oryza sativa] >gi\_226249\_prf\_1503143A psbA gene [Oryza sativa] >gi\_226406\_prf\_15'

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o3.tm	Method	TBLASTX:Maize
Start	131	End	435
GI	none	Score	220
Exons	131..289, 132..284, 278..427, 282..428, 307..435		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o3.tw	Method	TBLASTX:Wheat
Start	131	End	399
GI	none	Score	349
Exons	131..397, 132..398, 132..398, 133..399		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o2.tm	Method	TBLASTX:Maize
Start	1527	End	2156
GI	none	Score	64
Exons	1527..1571, 1530..1577, 1572..1604, 1574..1615, 1603..1641,		

1626..1880, 1628..1906, 1634..1894, 1868..2002, 1879..2016,  
1882..2049, 1926..2069, 2020..2052, 2061..2156, 2072..2155

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o5.ts	Method	TBLASTX:Soybean
Start	1636	End	2759
GI	none	Score	38
Exons	1636..1659, 1640..1660, 1684..1773, 1685..1774, 1700..1774, 1766..1816, 1771..1830, 1805..1858, 1805..1867, 1878..1916, 1879..1917, 1880..1918, 1921..2022, 1936..2043, 2007..2066, 2150..2179, 2161..2193, 2196..2246, 2197..2238, 2244..2291, 2451..2549, 2461..2553, 2487..2558, 2520..2759, 2530..2742, 2531..2758		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o5.tc	Method	TBLASTX:Cress
Start	2497	End	2684
GI	none	Score	230
Exons	2497..2592, 2498..2683, 2505..2684		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o6.tm	Method	TBLASTX:Maize
Start	2988	End	3362
GI	none	Score	65
Exons	2988..3041, 3038..3133, 3038..3097, 3039..3134, 3046..3144, 3124..3168, 3162..3242, 3166..3243, 3167..3226, 3216..3254, 3227..3265, 3230..3268, 3257..3322, 3282..3323, 3319..3360, 3320..3361, 3321..3362		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o4.tc	Method	TBLASTX:Cress
Start	3328	End	3875
GI	none	Score	157
Exons	3328..3477, 3336..3479, 3337..3477, 3466..3507, 3466..3492, 3468..3506, 3532..3576, 3558..3671, 3583..3675, 3595..3681, 3599..3682, 3599..3691, 3775..3810, 3776..3820, 3780..3821, 3783..3821, 3822..3863, 3823..3870, 3825..3875		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o5.tm	Method	TBLASTX:Maize
Start	3363	End	3623
GI	none	Score	209
Exons	3363..3515, 3363..3563, 3364..3543, 3508..3603, 3534..3611, 3600..3623		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-

Start	7264	End	7398
Name	OJ000150_25.0124.C23.o7.tm	Method	TBLASTX:Maize
Start	3771	End	4004
GI	none	Score	114
Exons	3771..3854, 3778..3852, 3832..3876, 3850..3876, 3852..3947, 3859..3951, 3863..3952, 3971..4003, 3972..4004, 3972..4004		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o3.ts	Method	TBLASTX:Soybean
Start	4063	End	4609
GI	none	Score	60
Exons	4063..4194, 4206..4316, 4209..4340, 4210..4317, 4211..4342, 4331..4405, 4345..4398, 4412..4609, 4419..4595, 4433..4600		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o6.tc	Method	TBLASTX:Cress
Start	4063	End	4416
GI	none	Score	116
Exons	4063..4176, 4064..4177, 4065..4178, 4206..4316, 4208..4315, 4211..4363, 4213..4335, 4337..4405, 4351..4416		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o3.tc	Method	TBLASTX:Cress
Start	4422	End	4904
GI	none	Score	62
Exons	4422..4493, 4422..4601, 4423..4614, 4427..4666, 4436..4669, 4684..4743, 4685..4750, 4685..4753, 4741..4902, 4748..4903, 4860..4904		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o1.tw	Method	TBLASTX:Wheat
Start	4484	End	4864
GI	none	Score	590
Exons	4484..4864, 4484..4861, 4585..4863		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o4.ts	Method	TBLASTX:Soybean
Start	4632	End	5079
GI	none	Score	43
Exons	4632..4688, 4638..4781, 4672..4815, 4679..4825, 4819..4938, 4830..5078, 4868..5077, 4894..5079		

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o4.tm	Method	TBLASTX:Maize
Start	5032	End	5298

GI	none	Score	415
Exons	5032..5298, 5033..5296		
Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o2.tw	Method	TBLASTX:Wheat
Start	5130	End	5526
GI	none	Score	46
Exons	5130..5156, 5131..5157, 5152..5526, 5153..5524		
Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o2.ts	Method	TBLASTX:Soybean
Start	5217	End	5587
GI	none	Score	109
Exons	5217..5342, 5224..5349, 5228..5344, 5336..5587, 5338..5583		
Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o1.tm	Method	TBLASTX:Maize
Start	6056	End	6552
GI	none	Score	267
Exons	6056..6550, 6059..6235, 6061..6552, 6063..6551		
Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o1.ts	Method	TBLASTX:Soybean
Start	6056	End	6371
GI	none	Score	174
Exons	6056..6235, 6066..6371, 6067..6369, 6075..6371		
Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o1.tc	Method	TBLASTX:Cress
Start	6080	End	6747
GI	none	Score	46
Exons	6080..6115, 6093..6518, 6112..6537, 6514..6744, 6520..6747		
Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o6.ts	Method	TBLASTX:Soybean
Start	6436	End	6801
GI	none	Score	214
Exons	6436..6801, 6595..6780		
Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o2.tc	Method	TBLASTX:Cress
Start	6835	End	7203
GI	none	Score	579

Exons 6835..7203, 6835..7185

Seq. No.	27195	Seq. ID	OJ000150_25.0124.C23
Gene No.	56310	Strand	-
Start	7264	End	7398
Name	OJ000150_25.0124.C23.o6.gp	Method	AAT/GAP
Start	7264	End	7398
GI	3073_1.R1084	Score	236
Exons	7264..7398		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934 (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf_1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	27196	Seq. ID	OJ000150_25.0124.C24
Gene No.	56311	Strand	-
Start	1	End	703
Name	OJ000150_25.0124.C24.o1.gp	Method	AAT/GAP
Start	1	End	177
GI	2135_1.R1084	Score	318
Exons	1..177		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-159 Rice complete chloroplast genome'		

Seq. No.	27196	Seq. ID	OJ000150_25.0124.C24
Gene No.	56311	Strand	-
Start	1	End	703
Name	OJ000150_25.0124.C24.o1.tm	Method	TBLASTX:Maize
Start	2	End	703
GI	none	Score	163
Exons	2..139, 3..131, 142..672, 161..682, 401..682, 677..703		

Seq. No.	27196	Seq. ID	OJ000150_25.0124.C24
Gene No.	56311	Strand	-
Start	1	End	703
Name	OJ000150_25.0124.C24.o1.ts	Method	TBLASTX:Soybean
Start	102	End	672
GI	none	Score	515
Exons	102..131, 172..672, 176..670		

Seq. No.	27196	Seq. ID	OJ000150_25.0124.C24
Gene No.	56311	Strand	-
Start	1	End	703
Name	OJ000150_25.0124.C24.o1.tw	Method	TBLASTX:Wheat
Start	160	End	605
GI	none	Score	120
Exons	160..246, 161..244, 174..254, 178..246, 250..600, 252..590, 255..605		

Seq. No.	27196	Seq. ID	OJ000150_25.0124.C24
Gene No.	56311	Strand	-
Start	1	End	703
Name	OJ000150_25.0124.C24.o1.tc	Method	TBLASTX:Cress
Start	268	End	679
GI	none	Score	260
Exons	268..642, 268..672, 269..679		

Seq. No.	27197	Seq. ID	OJ000150_25.0124.C26
Gene No.	56312	Strand	
Start	53	End	386
Name	OJ000150_25.0124.C26.o2.tw	Method	TBLASTX:Wheat
Start	53	End	155
GI	none	Score	162
Exons	53..154, 54..155, 55..153		

Seq. No.	27197	Seq. ID	OJ000150_25.0124.C26
Gene No.	56312	Strand	
Start	53	End	386
Name	OJ000150_25.0124.C26.o1.tm	Method	TBLASTX:Maize
Start	54	End	386
GI	none	Score	203
Exons	54..173, 55..174, 57..182, 89..370, 170..361, 171..377, 171..386, 172..381		

Seq. No.	27197	Seq. ID	OJ000150_25.0124.C26
Gene No.	56312	Strand	
Start	53	End	386
Name	OJ000150_25.0124.C26.o1.tw	Method	TBLASTX:Wheat
Start	156	End	375
GI	none	Score	353
Exons	156..374, 156..374, 157..375		

Seq. No.	27197	Seq. ID	OJ000150_25.0124.C26
Gene No.	56313	Strand	
Start	323	End	828
Name	OJ000150_25.0124.C26.o1.tc	Method	TBLASTX:Cress
Start	323	End	828
GI	none	Score	55
Exons	323..370, 323..361, 418..525, 422..499, 433..525, 482..676, 500..679, 501..677, 712..762, 713..763, 751..825, 772..828		

Seq. No.	27197	Seq. ID	OJ000150_25.0124.C26
Gene No.	56314	Strand	
Start	760	End	1083
Name	OJ000150_25.0124.C26.o1.ts	Method	TBLASTX:Soybean
Start	760	End	1083
GI	none	Score	82
Exons	760..810, 762..812, 905..994, 907..996, 910..996, 911..997, 1000..1083, 1001..1081		

Seq. No.	27197	Seq. ID	OJ000150_25.0124.C26
Gene No.	56314	Strand	
Start	760	End	1083
Name	OJ000150_25.0124.C26.o2.tm	Method	TBLASTX:Maize
Start	789	End	1069
GI	none	Score	367
Exons	789..1016, 789..998, 791..1027, 791..1015, 972..1067, 994..1068, 995..1069, 997..1068		

Seq. No.	27198	Seq. ID	OJ000150_25.0124.C27
Gene No.	56315	Strand	
Start	1	End	542
Name	OJ000150_25.0124.C27.o1.tc	Method	TBLASTX:Cress

Start	1	End	287
GI	none	Score	53
Exons	1..48, 2..139, 2..127, 9..164, 76..165, 166..207, 167..211, 171..221, 174..221, 210..284, 231..287, 232..285		

Seq. No.	27198	Seq. ID	OJ000150_25.0124.C27
Gene No.	56315	Strand	
Start	1	End	542
Name	OJ000150_25.0124.C27.o1.tm	Method	TBLASTX:Maize
Start	38	End	528
GI	none	Score	41
Exons	38..109, 248..475, 248..457, 250..486, 250..474, 453..527, 454..528, 455..526, 456..527		

Seq. No.	27198	Seq. ID	OJ000150_25.0124.C27
Gene No.	56315	Strand	
Start	1	End	542
Name	OJ000150_25.0124.C27.o1.ts	Method	TBLASTX:Soybean
Start	219	End	542
GI	none	Score	78
Exons	219..269, 219..269, 221..271, 364..453, 366..455, 369..455, 370..456, 459..542, 460..540		

Seq. No.	27199	Seq. ID	OJ000150_25.0124.C28
Gene No.	56316	Strand	+
Start	469	End	641
Name	OJ000150_25.0124.C28.o1.tm	Method	TBLASTX:Maize
Start	54	End	372
GI	none	Score	312
Exons	54..254, 55..255, 56..256, 255..371, 255..371, 259..372		

Seq. No.	27199	Seq. ID	OJ000150_25.0124.C28
Gene No.	56316	Strand	+
Start	469	End	641
Name	OJ000150_25.0124.C28.o1.ts	Method	TBLASTX:Soybean
Start	56	End	297
GI	none	Score	60
Exons	56..127, 56..145, 57..146, 126..296, 126..287, 127..297, 205..297		

Seq. No.	27199	Seq. ID	OJ000150_25.0124.C28
Gene No.	56316	Strand	+
Start	469	End	641
Name	OJ000150_25.0124.C28.o1.tc	Method	TBLASTX:Cress
Start	252	End	641
GI	none	Score	100
Exons	252..350, 253..348, 327..482, 350..511, 352..525, 508..552, 510..551, 525..584, 567..641, 596..640		

Seq. No.	27199	Seq. ID	OJ000150_25.0124.C28
Gene No.	56316	Strand	+
Start	469	End	641
Name	OJ000150_25.0124.C28.o2.tm	Method	TBLASTX:Maize
Start	389	End	632
GI	none	Score	144
Exons	389..508, 390..482, 394..510, 399..512, 573..632, 577..630, 593..631		



Seq. No.	27199	Seq. ID	OJ000150_25.0124.C28
Gene No.	56316	Strand	+
Start	469	End	641
Name	OJ000150_25.0124.C28.o1.gp	Method	AAT/GAP
Start	469	End	641
GI	2798177	Score	300
Exons	469..641		
GI Descrip.	5881726/dbj BAA84417.1  3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]		

Seq. No.	27200	Seq. ID	OJ000150_25.0124.C29
Gene No.	56317	Strand	+
Start	1	End	451
Name	OJ000150_25.0124.C29.o1.gp	Method	AAT/GAP
Start	1	End	451
GI	uC-osflm202104g03b1	Score	898
Exons	1..451		
GI Descrip.	'131211/sp P19443 PSAJ MAIZE 6.0e-10 PHOTOSYSTEM I REACTION CENTRE SUBUNIT IX (PSI-J) >gi_1363533_pir_S58571 photosystem I protein psaJ - maize chloroplast >gi_552734 (J04502) ORF42 [Zea mays] >gi_902241_emb_CAA60305_ (X86563) psaJ [Zea mays]'		

Seq. No.	27200	Seq. ID	OJ000150_25.0124.C29
Gene No.	56317	Strand	+
Start	1	End	451
Name	OJ000150_25.0124.C29.o1.tm	Method	TBLASTX:Maize
Start	1	End	231
GI	none	Score	282
Exons	1..231, 1..231		

Seq. No.	27200	Seq. ID	OJ000150_25.0124.C29
Gene No.	56317	Strand	+
Start	1	End	451
Name	OJ000150_25.0124.C29.o1.tw	Method	TBLASTX:Wheat
Start	1	End	219
GI	none	Score	259
Exons	1..219, 1..204		

Seq. No.	27200	Seq. ID	OJ000150_25.0124.C29
Gene No.	56317	Strand	+
Start	1	End	451
Name	OJ000150_25.0124.C29.o1.tc	Method	TBLASTX:Cress
Start	2	End	153
GI	none	Score	149
Exons	2..139, 4..153, 5..97		

Seq. No.	27200	Seq. ID	OJ000150_25.0124.C29
Gene No.	56317	Strand	+
Start	1	End	451
Name	OJ000150_25.0124.C29.o1.ts	Method	TBLASTX:Soybean
Start	4	End	149
GI	none	Score	149
Exons	4..144, 5..97, 5..145, 15..149		

Seq. No.	27201	Seq. ID	OJ000150_25.0124.C30
Gene No.	56318	Strand	+

Start	248	End	625
Name	OJ000150_25.0124.C30.ol.tm	Method	TBLASTX:Maize
Start	54	End	572
GI	none	Score	108
Exons	54..119, 55..141, 56..139, 116..568, 158..568, 477..572		

Seq. No.	27201	Seq. ID	OJ000150_25.0124.C30
Gene No.	56318	Strand	+
Start	248	End	625
Name	OJ000150_25.0124.C30.ol.tw	Method	TBLASTX:Wheat
Start	55	End	625
GI	none	Score	86
Exons	55..120, 56..136, 94..192, 116..184, 123..185, 148..222, 186..623, 199..624, 206..625, 206..625		

Seq. No.	27201	Seq. ID	OJ000150_25.0124.C30
Gene No.	56318	Strand	+
Start	248	End	625
Name	OJ000150_25.0124.C30.ol.ts	Method	TBLASTX:Soybean
Start	215	End	625
GI	none	Score	555
Exons	215..625, 215..625		

Seq. No.	27201	Seq. ID	OJ000150_25.0124.C30
Gene No.	56318	Strand	+
Start	248	End	625
Name	OJ000150_25.0124.C30.ol.tc	Method	TBLASTX:Cress
Start	224	End	625
GI	none	Score	41
Exons	224..256, 258..623, 260..625, 263..625		

Seq. No.	27201	Seq. ID	OJ000150_25.0124.C30
Gene No.	56318	Strand	+
Start	248	End	625
Name	OJ000150_25.0124.C30.ol.gp	Method	AAT/GAP
Start	248	End	625
GI	24824_1.R1084	Score	736
Exons	248..625		
GI Descrip.	'476752 5.0e-87 (L24073) rubisco large subunit [Oryza sativa] >gi_1583954_prf_2121489A RuBisCO:SUBUNIT=large:ISOTYPE=truncated [Oryza sativa]'		

Seq. No.	27202	Seq. ID	OJ000150_25.0124.C31
Gene No.	56319	Strand	+
Start	289	End	429
Name	OJ000150_25.0124.C31.ol.tc	Method	TBLASTX:Cress
Start	1	End	325
GI	none	Score	103
Exons	1..72, 1..72, 2..73, 3..134, 61..147, 77..148, 177..230, 179..226, 200..241, 202..246, 232..261, 241..324, 241..324, 248..325		

Seq. No.	27202	Seq. ID	OJ000150_25.0124.C31
Gene No.	56319	Strand	+
Start	289	End	429
Name	OJ000150_25.0124.C31.ol.ts	Method	TBLASTX:Soybean
Start	1	End	293

GI	none	Score	98
Exons	1..72, 2..73, 3..71, 61..126, 64..126, 77..130, 208..243, 209..244, 247..291, 247..291, 249..293, 254..292		
Seq. No.	27202	Seq. ID	OJ000150_25.0124.C31
Gene No.	56319	Strand	+
Start	289	End	429
Name	OJ000150_25.0124.C31.o1.tm	Method	TBLASTX:Maize
Start	1	End	429
GI	none	Score	267
Exons	1..159, 2..172, 2..172, 165..245, 179..241, 182..262, 192..428, 220..429, 220..429		

Seq. No.	27202	Seq. ID	OJ000150_25.0124.C31
Gene No.	56319	Strand	+
Start	289	End	429
Name	OJ000150_25.0124.C31.o1.gp	Method	AAT/GAP
Start	289	End	429
GI	uC-osflcyp097b05b1	Score	262
Exons	289..429		
GI Descrip.	'140503/sp P12173 YCTI_ORYSA 3.0e-39 HYPOTHETICAL 14 KD PROTEIN IN TRNI INTRON (ORF 133) >gi_82518_pir_JQ0279 hypothetical 14.5K protein (trnI intron) - rice chloroplast >gi_12041_emb_CAA33945_(X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_12061_emb_CAA33915_(X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_226660_prf_1603356CL trnI intron ORF 133 [Oryza']		

Seq. No.	27203	Seq. ID	OJ000150_25.0124.C32
Gene No.	56320	Strand	+
Start	1	End	362
Name	OJ000150_25.0124.C32.o1.gp	Method	AAT/GAP
Start	1	End	362
GI	1629_2.R1084	Score	606
Exons	1..362		
GI Descrip.	'1245217/gb U49840 OSU49840 1.0e-170 Oryza sativa subsp. indica large ribosomal RNA gene, chloroplast gene encoding chloroplast rRNA, partial sequence'		

Seq. No.	27203	Seq. ID	OJ000150_25.0124.C32
Gene No.	56321	Strand	-
Start	728	End	931
Name	OJ000150_25.0124.C32.o1.tc	Method	TBLASTX:Créss
Start	1	End	318
GI	none	Score	223
Exons	1..138, 3..140, 3..137, 123..206, 129..293, 139..291, 298..318		

Seq. No.	27203	Seq. ID	OJ000150_25.0124.C32
Gene No.	56321	Strand	-
Start	728	End	931
Name	OJ000150_25.0124.C32.o1.ts	Method	TBLASTX:Soybean
Start	2	End	366
GI	none	Score	223
Exons	2..133, 3..140, 3..137, 123..206, 129..245, 139..255, 143..277, 198..365, 236..364, 258..365, 277..366		

Seq. No.	27203	Seq. ID	OJ000150_25.0124.C32
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Gene No.	56321	Strand	-
Start	728	End	931
Name	OJ000150_25.0124.C32.o1.tm	Method	TBLASTX:Maize
Start	95	End	366
GI	none	Score	180
Exons	95..187, 96..206, 96..365, 97..366, 277..366		

Seq. No.	27203	Seq. ID	OJ000150_25.0124.C32
Gene No.	56321	Strand	-
Start	728	End	931
Name	OJ000150_25.0124.C32.o2.tc	Method	TBLASTX:Cress
Start	335	End	624
GI	none	Score	42
Exons	335..364, 336..365, 462..623, 463..624		

Seq. No.	27203	Seq. ID	OJ000150_25.0124.C32
Gene No.	56321	Strand	-
Start	728	End	931
Name	OJ000150_25.0124.C32.o1.tw	Method	TBLASTX:Wheat
Start	727	End	930
GI	none	Score	59
Exons	727..759, 728..760, 734..928, 734..928, 735..929, 757..930, 808..852, 809..853		

Seq. No.	27203	Seq. ID	OJ000150_25.0124.C32
Gene No.	56321	Strand	-
Start	728	End	931
Name	OJ000150_25.0124.C32.o2.gp	Method	AAT/GAP
Start	728	End	931
GI	306_9.R1084	Score	370
Exons	728..931		
GI Descrip.	'287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	27203	Seq. ID	OJ000150_25.0124.C32
Gene No.	56321	Strand	-
Start	728	End	931
Name	OJ000150_25.0124.C32.o2.tm	Method	TBLASTX:Maize
Start	728	End	931
GI	none	Score	348
Exons	728..931, 728..931, 808..852, 809..853		

Seq. No.	27204	Seq. ID	OJ000150_25.0124.C33
Gene No.	56322	Strand	+
Start	37	End	252
Name	OJ000150_25.0124.C33.o1.tc	Method	TBLASTX:Cress
Start	1	End	202
GI	none	Score	43
Exons	1..33, 6..35, 16..201, 17..199, 19..201, 20..202		

Seq. No.	27204	Seq. ID	OJ000150_25.0124.C33
Gene No.	56322	Strand	+
Start	37	End	252
Name	OJ000150_25.0124.C33.o1.tm	Method	TBLASTX:Maize
Start	1	End	252
GI	none	Score	59
Exons	1..33, 1..33, 9..200, 17..202, 18..200, 19..252, 20..202		

Seq. No.	27204	Seq. ID	OJ000150_25.0124.C33
Gene No.	56322	Strand	+
Start	37	End	252
Name	OJ000150_25.0124.C33.o1.gp	Method	AAT/GAP
Start	37	End	201
GI	7528_2.R1084	Score	295
Exons	37..201		
GI Descrip.	'140291/sp P12206 YCF4_ORYSA 7.0e-68 HYPOTHETICAL 21.5_KD PROTEIN (ORF 185) >gi_82541_pir_S05116 hypothetical protein 185 - rice chloroplast >gi_11997_emb_CAA33958_(X15901) ORF185 [Oryza sativa] >gi_226618_prf_1603356AQ_ORF 185 [Oryza sativa]'		

Seq. No.	27204	Seq. ID	OJ000150_25.0124.C33
Gene No.	56323	Strand	
Start	273	End	492
Name	OJ000150_25.0124.C33.o2.tc	Method	TBLASTX:Cress
Start	273	End	492
GI	none	Score	111
Exons	273..404, 315..395, 322..402, 379..492, 405..491, 406..492		

Seq. No.	27205	Seq. ID	OJ000150_25.0124.C35
Gene No.	56324	Strand	-
Start	388	End	529
Name	OJ000150_25.0124.C35.o1.tc	Method	TBLASTX:Cress
Start	81	End	360
GI	none	Score	200
Exons	81..347, 88..360		

Seq. No.	27205	Seq. ID	OJ000150_25.0124.C35
Gene No.	56324	Strand	-
Start	388	End	529
Name	OJ000150_25.0124.C35.o1.tm	Method	TBLASTX:Maize
Start	239	End	529
GI	none	Score	311
Exons	239..409, 240..422, 243..410, 413..529, 413..529		

Seq. No.	27205	Seq. ID	OJ000150_25.0124.C35
Gene No.	56324	Strand	-
Start	388	End	529
Name	OJ000150_25.0124.C35.o1.gp	Method	AAT/GAP
Start	388	End	516
GI	LIB3432-057-P1-K1-A8	Score	169
Exons	388..516		
GI Descrip.	'11957/emb X15901 CHOSXX 7.0e-52 Rice complete chloroplast genome'		

Seq. No.	27206	Seq. ID	OJ000150_25.0124.C36
Gene No.	56325	Strand	
Start	122	End	768
Name	OJ000150_25.0124.C36.o1.tc	Method	TBLASTX:Cress
Start	122	End	768
GI	none	Score	252
Exons	122..283, 135..299, 135..299, 311..403, 368..406, 380..427, 694..768, 695..760		

Seq. No.	27206	Seq. ID	OJ000150_25.0124.C36
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Gene No.	56325	Strand	
Start	122	End	768
Name	OJ000150_25.0124.C36.o1.ts	Method	TBLASTX:Soybean
Start	122	End	768
GI	none	Score	257
Exons	122..283, 126..299, 131..301, 135..299, 311..373, 361..432, 368..430, 380..424, 682..768, 695..760		

Seq. No.	27207	Seq. ID	OJ000150_25.0124.C37
Gene No.	56326	Strand	+
Start	1	End	194
Name	OJ000150_25.0124.C37.o1.gp	Method	AAT/GAP
Start	1	End	194
GI	306_9.R1084	Score	337
Exons	1..194		
GI Descrip.	'287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	27207	Seq. ID	OJ000150_25.0124.C37
Gene No.	56326	Strand	+
Start	1	End	194
Name	OJ000150_25.0124.C37.o1.tc	Method	TBLASTX:Cress
Start	1	End	194
GI	none	Score	199
Exons	1..144, 1..192, 3..194, 3..194		

Seq. No.	27207	Seq. ID	OJ000150_25.0124.C37
Gene No.	56326	Strand	+
Start	1	End	194
Name	OJ000150_25.0124.C37.o1.tm	Method	TBLASTX:Maize
Start	18	End	194
GI	none	Score	201
Exons	18..194, 19..147, 110..193		

Seq. No.	27207	Seq. ID	OJ000150_25.0124.C37
Gene No.	56326	Strand	+
Start	1	End	194
Name	OJ000150_25.0124.C37.o1.tw	Method	TBLASTX:Wheat
Start	75	End	194
GI	none	Score	112
Exons	75..194, 76..147, 90..194		

Seq. No.	27208	Seq. ID	OJ000150_25.0124.C38
Gene No.	56327	Strand	+
Start	1	End	321
Name	OJ000150_25.0124.C38.o1.gp	Method	AAT/GAP
Start	1	End	321
GI	2669_1.R1084	Score	502
Exons	1..321		
GI Descrip.	'3914470/sp Q40070 PSBR_HORVU 8.0e-26 PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR >gi_1321868_emb_CAA66373_ (X97771) 10kd PSII protein [Hordeum vulgare]'		

Seq. No.	27208	Seq. ID	OJ000150_25.0124.C38
Gene No.	56328	Strand	+
Start	350	End	439
Name	OJ000150_25.0124.C38.o1.tw	Method	TBLASTX:Wheat

Start 1 End 253  
 GI none Score 74  
 Exons 1..48, 1..39, 3..59, 3..47, 38..175, 39..188, 118..177,  
 175..237, 177..236, 178..237, 185..253

Seq. No. 27208 Seq. ID OJ000150\_25.0124.C38  
 Gene No. 56328 Strand +  
 Start 350 End 439  
 Name OJ000150\_25.0124.C38.o1.tc Method TBLASTX:Cress  
 Start 2 End 318  
 GI none Score 48  
 Exons 2..58, 3..59, 30..299, 32..301, 32..298, 118..318, 121..318

Seq. No. 27208 Seq. ID OJ000150\_25.0124.C38  
 Gene No. 56328 Strand +  
 Start 350 End 439  
 Name OJ000150\_25.0124.C38.o1.ts Method TBLASTX:Soybean  
 Start 5 End 425  
 GI none Score 155  
 Exons 5..97, 5..109, 146..262, 151..195, 211..264, 213..263, 265..357,  
 271..366, 275..349, 276..350, 277..354, 346..399, 347..400,  
 360..413, 396..425, 398..424

Seq. No. 27208 Seq. ID OJ000150\_25.0124.C38  
 Gene No. 56328 Strand +  
 Start 350 End 439  
 Name OJ000150\_25.0124.C38.o1.tm Method TBLASTX:Maize  
 Start 101 End 312  
 GI none Score 85  
 Exons 101..175, 102..188, 118..177, 121..246, 175..300, 177..311,  
 178..312

Seq. No. 27208 Seq. ID OJ000150\_25.0124.C38  
 Gene No. 56328 Strand +  
 Start 350 End 439  
 Name OJ000150\_25.0124.C38.o2.gp Method AAT/GAP  
 Start 350 End 439  
 GI 688\_1.R1084 Score 154  
 Exons 350..439  
 GI Descrip. '226661/prf||1603356CM 6.0e-54 trnA intron ORF 109 [Oryza  
 sativa]'

Seq. No. 27209 Seq. ID OJ000150\_25.0124.C39  
 Gene No. 56329 Strand  
 Start 151 End 395  
 Name OJ000150\_25.0124.C39.o1.ts Method TBLASTX:Soybean  
 Start 151 End 395  
 GI none Score 72  
 Exons 151..210, 152..211, 152..211, 218..274, 220..273, 258..395,  
 263..394, 264..395

Seq. No. 27210 Seq. ID OJ000150\_25.0124.C40  
 Gene No. 56330 Strand  
 Start 1 End 331  
 Name OJ000150\_25.0124.C40.o2.tm Method TBLASTX:Maize  
 Start 1 End 331  
 GI none Score 105

Exons 1..99, 3..233, 3..236, 5..241, 232..321, 235..321, 236..331, 236..322

Seq. No. 27210 Seq. ID OJ000150\_25.0124.C40  
Gene No. 56331 Strand  
Start 412 End 666  
Name OJ000150\_25.0124.C40.o1.tm Method TBLASTX:Maize  
Start 412 End 666  
GI none Score 97  
Exons 412..495, 412..465, 413..493, 414..494, 496..666, 499..666

Seq. No. 27211 Seq. ID OJ000150\_25.0124.C41  
Gene No. 56332 Strand  
Start 1 End 453  
Name OJ000150\_25.0124.C41.o1.tc Method TBLASTX:Cress  
Start 1 End 453  
GI none Score 734  
Exons 1..453, 1..450, 3..452

Seq. No. 27211 Seq. ID OJ000150\_25.0124.C41  
Gene No. 56332 Strand  
Start 1 End 453  
Name OJ000150\_25.0124.C41.o1.tm Method TBLASTX:Maize  
Start 3 End 453  
GI none Score 109  
Exons 3..86, 4..81, 100..453, 111..446

Seq. No. 27211 Seq. ID OJ000150\_25.0124.C41  
Gene No. 56332 Strand  
Start 1 End 453  
Name OJ000150\_25.0124.C41.o1.ts Method TBLASTX:Soybean  
Start 11 End 453  
GI none Score 457  
Exons 11..451, 12..452, 12..452, 13..453

Seq. No. 27211 Seq. ID OJ000150\_25.0124.C41  
Gene No. 56332 Strand  
Start 1 End 453  
Name OJ000150\_25.0124.C41.o1.tw Method TBLASTX:Wheat  
Start 18 End 381  
GI none Score 89  
Exons 18..86, 19..81, 100..381, 106..375, 111..380

Seq. No. 27212 Seq. ID OJ000150\_25.0124.C44  
Gene No. 56333 Strand +  
Start 1960 End 2506  
Name OJ000150\_25.0124.C44.o3.gp Method AAT/GAP  
Start 1960 End 2506  
GI 5005311 Score 1047  
Exons 1960..2506  
GI Descrip. 114521/sp|P12084|ATPA\_ORYSA 1.0e-78 ATP SYNTHASE ALPHA CHAIN  
>gi\_67827\_pir\_PWRZA H+-transporting ATP synthase (EC 3.6.1.34)  
alpha chain - rice chloroplast >gi\_11979\_emb\_CAA33993\_(X15901)  
ATPase alpha subunit [Oryza sativa] >gi\_226696\_prf\_1603356X  
ATPase alpha [Oryza sativa]

Seq. No. 27212 Seq. ID OJ000150\_25.0124.C44



Gene No.	56334	Strand	-
Start	1	End	766
Name	OJ000150_25.0124.C44.ol.gp	Method	AAT/GAP
Start	1	End	766
GI	2721_1.R1084	Score	1484
Exons	1..766		
GI Descrip.	'114622/sp P12087 ATPF ORYSA 1.0e-20 ATP SYNTHASE B CHAIN (SUBUNIT I) >gi_67929_pir_LWRZ1 H+-transporting ATP synthase (EC 3.6.1.34) chain I - rice chloroplast >gi_669080_emb_CAA33992_(X15901) ATPase I subunit [Oryza sativa] >gi_226695_prf_1603356W ATPase I [Oryza sativa]'		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.o3.tm	Method	TBLASTX:Maize
Start	1	End	247
GI	none	Score	138
Exons	1..135, 3..107, 119..163, 121..165, 149..247, 162..245, 164..247		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.ol.tm	Method	TBLASTX:Maize
Start	250	End	1916
GI	none	Score	200
Exons	250..414, 250..351, 342..374, 387..701, 399..701, 400..702, 407..703, 661..786, 671..784, 673..786, 786..878, 787..903, 787..915, 794..925, 865..1011, 907..1011, 908..1012, 921..1016, 1004..1081, 1005..1085, 1012..1089, 1042..1152, 1045..1158, 1073..1174, 1096..1311, 1132..1257, 1157..1303, 1260..1346, 1314..1844, 1333..1854, 1573..1854, 1849..1902, 1849..1908, 1854..1916		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.ol.ts	Method	TBLASTX:Soybean
Start	453	End	2814
GI	none	Score	253
Exons	453..632, 457..633, 457..633, 462..635, 724..783, 726..797, 729..782, 730..783, 789..842, 790..843, 793..840, 828..881, 830..913, 850..921, 874..918, 940..987, 940..981, 947..982, 1009..1077, 1012..1083, 1019..1078, 1168..1185, 1267..1308, 1274..1303, 1344..1844, 1348..1842, 1864..1899, 1904..2467, 1915..2814, 2094..2747, 2594..2749, 2745..2813		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.ol.tc	Method	TBLASTX:Cress
Start	516	End	2415
GI	none	Score	129
Exons	516..614, 525..614, 1440..1814, 1440..1844, 1441..1851, 1904..2401, 1918..2415, 2094..2414		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
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Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.o2.tw	Method	TBLASTX:Wheat
Start	634	End	1110
GI	none	Score	183
Exons	634..753, 634..753, 750..797, 750..788, 787..909, 787..909, 788..910, 884..994, 912..995, 913..996, 913..993, 914..994, 993..1079, 996..1076, 997..1083, 1006..1110, 1069..1101, 1073..1108		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.o2.gp	Method	AAT/GAP
Start	804	End	1349
GI	2135_1.R1084	Score	1072
Exons	804..1349		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-159 Rice complete chloroplast genome'		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.o1.tw	Method	TBLASTX:Wheat
Start	1332	End	1777
GI	none	Score	120
Exons	1332..1418, 1333..1416, 1346..1426, 1350..1418, 1422..1772, 1424..1762, 1427..1777		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.o2.tm	Method	TBLASTX:Maize
Start	1960	End	2273
GI	none	Score	260
Exons	1960..2271, 2097..2141, 2202..2273		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56335	Strand	-
Start	804	End	2814
Name	OJ000150_25.0124.C44.o3.tc	Method	TBLASTX:Cress
Start	2420	End	2690
GI	none	Score	57
Exons	2420..2602, 2424..2690, 2425..2682		

Seq. No.	27212	Seq. ID	OJ000150_25.0124.C44
Gene No.	56336	Strand	-
Start	2773	End	2913
Name	OJ000150_25.0124.C44.o2.tc	Method	TBLASTX:Cress
Start	2773	End	2913
GI	none	Score	229
Exons	2773..2913, 2775..2912		

Seq. No.	27213	Seq. ID	OJ000150_25.0124.C45
Gene No.	56337	Strand	+
Start	41	End	633
Name	OJ000150_25.0124.C45.o1.tc	Method	TBLASTX:Cress

Start	1	End	633
GI	none	Score	431
Exons	1..429, 3..386, 10..429, 194..430, 557..622, 561..632, 561..629, 562..633, 562..633		

Seq. No.	27213	Seq. ID	OJ000150_25.0124.C45
Gene No.	56337	Strand	+
Start	41	End	633
Name	OJ000150_25.0124.C45.o1.ts	Method	TBLASTX:soybean
Start	1	End	430
GI	none	Score	457
Exons	1..423, 3..386, 185..430		

Seq. No.	27213	Seq. ID	OJ000150_25.0124.C45
Gene No.	56337	Strand	+
Start	41	End	633
Name	OJ000150_25.0124.C45.o1.gp	Method	AAT/GAP
Start	41	End	457
GI	LIB3431-040-P1-K2-C1	Score	738
Exons	41..457		
GI Descrip.	'114521/sp P12084 ATPA_ORYSA 6.0e-53 ATP SYNTHASE ALPHA CHAIN >gi_67827_pir_PWRZA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rice chloroplast >gi_11979_emb_CAA33993_(X15901) ATPase alpha subunit [Oryza sativa] >gi_226696_prf_1603356X ATPase alpha [Oryza sativa]'		

Seq. No.	27213	Seq. ID	OJ000150_25.0124.C45
Gene No.	56338	Strand	
Start	891	End	1170
Name	OJ000150_25.0124.C45.o2.tc	Method	TBLASTX:Cress
Start	891	End	1170
GI	none	Score	74
Exons	891..950, 891..974, 892..972, 1002..1064, 1003..1065, 1106..1168, 1106..1168, 1108..1170, 1108..1170		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56339	Strand	+
Start	1	End	339
Name	OJ000150_25.0124.C46.o1.gp	Method	AAT/GAP
Start	1	End	339
GI	LIB3431-040-P1-K2-C1	Score	562
Exons	1..339		
GI Descrip.	'114521/sp P12084 ATPA_ORYSA 6.0e-53 ATP SYNTHASE ALPHA CHAIN >gi_67827_pir_PWRZA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rice chloroplast >gi_11979_emb_CAA33993_(X15901) ATPase alpha subunit [Oryza sativa] >gi_226696_prf_1603356X ATPase alpha [Oryza sativa]'		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56340	Strand	+
Start	5952	End	6210
Name	OJ000150_25.0124.C46.o3.gp	Method	AAT/GAP
Start	5952	End	6210
GI	uC-osflM202088b07a1	Score	514
Exons	5952..6210		
GI Descrip.	'11957/emb X15901 CHOSXX 2.0e-52 Rice complete chloroplast genome'		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56341	Strand	+
Start	11736	End	11797
Name	OJ000150_25.0124.C46.o5.gp	Method	AAT/GAP
Start	11736	End	11797
GI	56420_1.R1084	Score	88
Exons	11736..11797		
GI Descrip.	'2979562 2.0e-16 (AC003680) unknown protein [Arabidopsis thaliana] >gi_3386623 (AC004665) unknown protein [Arabidopsis thaliana]'		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56342	Strand	+
Start	13840	End	13945
Name	OJ000150_25.0124.C46.o6.gp	Method	AAT/GAP
Start	13840	End	13945
GI	2409_1.R1084	Score	208
Exons	13840..13945		
GI Descrip.	'128690/sp P12126 NU3C_ORYSA 2.0e-56 NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 3, CHLOROPLAST >gi_66161_pir_DERZN3 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 3 - rice chloroplast >gi_11989_emb_CAA34001_ (X15901) ndhC; NADH dehydrogenase ND3 [Oryza sativa] >gi_226610_prf_1603356AG NADH dehydrogenase ND3 [Oryza sativa]'		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56343	Strand	-
Start	2576	End	3006
Name	OJ000150_25.0124.C46.o2.gp	Method	AAT/GAP
Start	2576	End	3006
GI	uC-osflcyp021g10b1	Score	766
Exons	2576..3006		
GI Descrip.	'131148/sp P12156 PSAB_ORYSA 6.0e-59 PHOTOSYSTEM I P700 CHLOROPHYLL A APOPROTEIN A2 >gi_72674_pir_A2RZP7 photosystem I P700 apoprotein A2 - rice chloroplast >gi_11981_emb_CAA33995_ (X15901) PSI P700 apoprotein A2 [Oryza sativa] >gi_226604_prf_1603356AA photosystem I P700 apoprotein A2 [Oryza sativa]'		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o10.tc	Method	TBLASTX:Cress
Start	1	End	516
GI	none	Score	71
Exons	1..96, 2..94, 3..107, 3..95, 102..302, 102..305, 103..306, 104..307, 442..474, 442..471, 463..504, 465..515, 469..516		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o9.ts	Method	TBLASTX:Soybean
Start	2	End	312
GI	none	Score	97
Exons	2..94, 3..107, 3..95, 102..302, 102..284, 103..306, 103..312		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o7.tc	Method	TBLASTX:Cress
Start	773	End	1455
GI	none	Score	86
Exons	773..856, 774..854, 882..1079, 884..1084, 885..1079, 1098..1229, 1133..1201, 1179..1202, 1344..1454, 1345..1455, 1370..1453		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o1.ts	Method	TBLASTX:Soybean
Start	1101	End	4835
GI	none	Score	117
Exons	1101..1247, 1133..1198, 1168..1209, 1320..2582, 1321..1833, 1370..2617, 1370..2617, 3598..3690, 3702..3845, 3720..3809, 3849..3929, 3973..4314, 3996..4310, 4365..4409, 4431..4835, 4435..4536		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o1.tm	Method	TBLASTX:Maize
Start	1119	End	5081
GI	none	Score	164
Exons	1119..1217, 1133..1216, 1218..1235, 1219..1245, 1277..1324, 1278..1331, 1279..1335, 1329..2582, 1333..1833, 1358..2770, 1370..2902, 2539..2892, 2820..2903, 2868..2963, 2873..2980, 2878..2958, 2882..2962, 3702..3845, 3720..3818, 3849..3929, 3996..4178, 3996..4310, 3997..4314, 4365..4409, 4431..4835, 4435..4848, 4842..5081, 4843..4914, 4866..4991, 4954..5013		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o2.tc	Method	TBLASTX:Cress
Start	1496	End	4200
GI	none	Score	266
Exons	1496..1663, 1497..1661, 1501..1662, 1657..1833, 1662..2042, 1664..2044, 1665..2045, 3714..3845, 3720..3818, 3855..3929, 3996..4181, 3996..4199, 3997..4200		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o1.tc	Method	TBLASTX:Cress
Start	2147	End	5403
GI	none	Score	34
Exons	2147..2176, 2150..2194, 2198..2431, 2201..2605, 2205..2555, 2618..2764, 2619..2771, 2942..3073, 3083..3187, 4200..5402, 4237..5403		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o4.ts	Method	TBLASTX:Soybean

Start	2617	End	5283
GI	none	Score	163
Exons	2617..2877, 2618..2770, 2618..3091, 2619..2771, 2619..3092, 2620..2772, 2815..2868, 2820..3092, 2825..3094, 2905..3102, 4842..5012, 4843..5013, 5016..5063, 5169..5282, 5170..5283		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o13.tc	Method	TBLASTX:Cress
Start	2772	End	2942
GI	none	Score	141
Exons	2772..2930, 2774..2935, 2797..2931, 2819..2941, 2820..2942		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o7.tm	Method	TBLASTX:Maize
Start	2981	End	5414
GI	none	Score	384
Exons	2981..3274, 2981..3274, 2982..3275, 5169..5291, 5191..5283, 5298..5414		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o7.ts	Method	TBLASTX:Soybean
Start	3105	End	5534
GI	none	Score	351
Exons	3105..3350, 3105..3200, 3134..3349, 5298..5414, 5481..5534		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o6.tc	Method	TBLASTX:Cress
Start	3191	End	5705
GI	none	Score	75
Exons	3191..3310, 3192..3311, 3260..3685, 3261..3710, 3264..3710, 3274..3711, 5493..5639, 5634..5705		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o4.tm	Method	TBLASTX:Maize
Start	3275	End	6553
GI	none	Score	742
Exons	3275..3433, 3431..3502, 5423..5875, 5423..5758, 5424..5903, 5425..5880, 5850..5963, 5866..5910, 5873..5950, 5925..6053, 5939..6055, 5945..6061, 6056..6085, 6057..6086, 6099..6149, 6102..6149, 6127..6231, 6141..6230, 6164..6244, 6228..6299, 6229..6285, 6233..6286, 6280..6360, 6281..6361, 6282..6362, 6282..6362, 6390..6542, 6401..6472, 6402..6539, 6406..6546, 6407..6553		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375

Name	OJ000150_25.0124.C46.o6.ts	Method	TBLASTX:Soybean
Start	3350	End	5974
GI	none	Score	365
Exons	3350..3433, 3431..3502, 5556..5873, 5556..5891, 5560..5892, 5563..5892, 5945..5974		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o11.tc	Method	TBLASTX:Cress
Start	5706	End	5974
GI	none	Score	234
Exons	5706..5873, 5706..5873, 5707..5874, 5713..5874, 5868..5951, 5945..5974		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o10.ts	Method	TBLASTX:Soybean
Start	6432	End	7422
GI	none	Score	149
Exons	6432..6587, 6433..6588, 6473..6598, 7304..7420, 7306..7422, 7312..7422		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o12.tc	Method	TBLASTX:Cress
Start	6483	End	6814
GI	none	Score	136
Exons	6483..6623, 6483..6611, 6490..6627, 6599..6664, 6600..6650, 6601..6654, 6602..6655, 6713..6757, 6713..6787, 6717..6788, 6771..6809, 6776..6814		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o8.tm	Method	TBLASTX:Maize
Start	6608	End	6951
GI	none	Score	240
Exons	6608..6763, 6611..6763, 6713..6835, 6752..6871, 6759..6875, 6763..6888, 6765..6872, 6861..6911, 6865..6948, 6868..6930, 6872..6949, 6901..6951		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o8.tc	Method	TBLASTX:Cress
Start	7282	End	7632
GI	none	Score	393
Exons	7282..7539, 7284..7619, 7285..7632		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o3.tm	Method	TBLASTX:Maize
Start	7291	End	8447

GI	none	Score	556
Exons	7291..7539, 7293..7643, 7293..7628, 7493..7645, 7579..7644, 7638..8267, 7642..8298, 7643..8251, 7674..8264, 8221..8424, 8246..8425, 8262..8426, 8262..8426, 8263..8427, 8427..8447, 8429..8446		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o9.tc	Method	TBLASTX:Cress
Start	7698	End	8436
GI	none	Score	56
Exons	7698..7754, 7710..7730, 7765..7818, 7782..7817, 7782..7913, 7823..7939, 7824..7940, 7828..7947, 7935..8051, 7947..8051, 7948..8061, 8060..8152, 8072..8152, 8074..8157, 8243..8422, 8250..8432, 8250..8432, 8251..8436		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o8.ts	Method	TBLASTX:Soybean
Start	7761	End	8437
GI	none	Score	54
Exons	7761..7817, 7762..7821, 7781..7822, 7794..7916, 7823..7942, 7824..7952, 7995..8030, 8005..8028, 8064..8090, 8071..8145, 8091..8162, 8105..8149, 8157..8183, 8161..8184, 8262..8429, 8263..8430, 8263..8430, 8276..8437		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o9.tm	Method	TBLASTX:Maize
Start	8614	End	9000
GI	none	Score	291
Exons	8614..8634, 8618..8902, 8638..8769, 8657..8905, 8815..8910, 8900..8989, 8901..8990, 8904..8990, 8905..9000, 8905..8991		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o6.tm	Method	TBLASTX:Maize
Start	9081	End	9623
GI	none	Score	97
Exons	9081..9164, 9082..9162, 9083..9163, 9109..9165, 9164..9316, 9165..9590, 9166..9606, 9166..9591, 9168..9596, 9588..9623		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o2.tw	Method	TBLASTX:Wheat
Start	9251	End	9651
GI	none	Score	101
Exons	9251..9289, 9288..9368, 9300..9368, 9307..9369, 9313..9369, 9328..9651, 9357..9650		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-



Start	9888	End	10375
Name	OJ000150_25.0124.C46.o4.tc	Method	TBLASTX:Cress
Start	9378	End	10375
GI	none	Score	585
Exons	9378..10007, 9379..10008, 9381..10007, 9388..10008, 9878..10012, 10026..10097, 10027..10074, 10240..10359, 10272..10361, 10279..10356, 10280..10375, 10280..10366		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o5.ts	Method	TBLASTX:Soybean
Start	9602	End	10106
GI	none	Score	369
Exons	9602..9823, 9603..9998, 9603..10004, 9604..10005, 9911..10006, 10050..10106		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o10.tm	Method	TBLASTX:Maize
Start	9884	End	10141
GI	none	Score	163
Exons	9884..9997, 9884..9997, 9885..9998, 9886..10026, 9992..10084, 9994..10107, 9996..10106, 9998..10117, 10115..10141, 10116..10139		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56344	Strand	-
Start	9888	End	10375
Name	OJ000150_25.0124.C46.o4.gp	Method	AAT/GAP
Start	9888	End	10003
GI	LIB3431-013-P1-K1-B3	Score	181
Exons	9888..10003		
GI Descrip.	'6002093/emb X84149.1 CHZLRPS4G 9.0e-21 Zizania latifolia chloroplast rps4 gene for ribosomal protein S4'		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56345	Strand	-
Start	10735	End	11751
Name	OJ000150_25.0124.C46.o5.tm	Method	TBLASTX:Maize
Start	10735	End	11726
GI	none	Score	78
Exons	10735..10848, 10767..10850, 10843..11004, 10845..11003, 10846..11016, 10996..11226, 10997..11227, 11000..11236, 11001..11237, 11001..11237, 11233..11268, 11236..11355, 11237..11266, 11260..11352, 11261..11359, 11271..11363, 11435..11482, 11442..11540, 11443..11541, 11535..11582, 11536..11613, 11536..11613, 11537..11614, 11550..11618, 11611..11685, 11612..11722, 11612..11725, 11625..11726		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56345	Strand	-
Start	10735	End	11751
Name	OJ000150_25.0124.C46.o11.ts	Method	TBLASTX:Soybean
Start	11088	End	11355
GI	none	Score	165

Exons 11088..11237, 11110..11271, 11127..11237, 11227..11277,  
11233..11355, 11234..11350, 11259..11351, 11299..11352

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56345	Strand	
Start	10735	End	11751
Name	OJ000150_25.0124.C46.o3.tw	Method	TBLASTX:Wheat
Start	11112	End	11374
GI	none	Score	176
Exons	11112..11300, 11119..11229, 11120..11236, 11121..11237, 11216..11269, 11235..11276, 11288..11374, 11300..11374		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56345	Strand	
Start	10735	End	11751
Name	OJ000150_25.0124.C46.o14.tc	Method	TBLASTX:Cress
Start	11615	End	11751
GI	none	Score	133
Exons	11615..11731, 11618..11749, 11625..11738, 11625..11750, 11728..11751		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56346	Strand	
Start	12341	End	13945
Name	OJ000150_25.0124.C46.o2.tm	Method	TBLASTX:Maize
Start	12341	End	13945
GI	none	Score	68
Exons	12341..12391, 12341..12391, 12342..12401, 12390..12461, 12394..12462, 12404..12433, 12459..13118, 12465..13100, 13098..13136, 13105..13314, 13109..13324, 13140..13331, 13141..13311, 13148..13312, 13297..13821, 13300..13683, 13301..13852, 13301..13831, 13302..13832, 13835..13945, 13857..13904, 13859..13912, 13861..13944		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56346	Strand	
Start	12341	End	13945
Name	OJ000150_25.0124.C46.o5.tc	Method	TBLASTX:Cress
Start	12548	End	13025
GI	none	Score	463
Exons	12548..13015, 12549..13016, 12549..13025, 12679..13023		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56346	Strand	
Start	12341	End	13945
Name	OJ000150_25.0124.C46.o3.ts	Method	TBLASTX:Soybean
Start	12600	End	13050
GI	none	Score	383
Exons	12600..13034, 12600..13034, 12676..13050		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56346	Strand	
Start	12341	End	13945
Name	OJ000150_25.0124.C46.o3.tc	Method	TBLASTX:Cress
Start	13112	End	13829
GI	none	Score	146
Exons	13112..13300, 13137..13301, 13138..13404, 13291..13362,		

13349..13405, 13398..13568, 13399..13821, 13400..13828,  
13515..13829

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56346	Strand	
Start	12341	End	13945
Name	OJ000150_25.0124.C46.o2.ts	Method	TBLASTX:Soybean
Start	13180	End	13864
GI	none	Score	778
Exons	13180..13821, 13181..13864, 13181..13828		

Seq. No.	27214	Seq. ID	OJ000150_25.0124.C46
Gene No.	56346	Strand	
Start	12341	End	13945
Name	OJ000150_25.0124.C46.o1.tw	Method	TBLASTX:Wheat
Start	13267	End	13798
GI	none	Score	697
Exons	13267..13797, 13268..13798		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56347	Strand	-
Start	337	End	1306
Name	OJ000150_25.0124.C47.o1.gp	Method	AAT/GAP
Start	337	End	1306
GI	2409_1.R1084	Score	1911
Exons	337..1306		
GI Descrip.	'128690/sp P12126 NU3C_ORYSA 2.0e-56 NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 3, CHLOROPLAST >gi_66161_pir_DERZN3 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 3 - rice chloroplast >gi_11989_emb_CAA34001_(X15901) ndhC; NADH dehydrogenase ND3 [Oryza sativa] >gi_226610_prf_1603356AG NADH dehydrogenase ND3 [Oryza sativa]'		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679
Name	OJ000150_25.0124.C47.o1.tm	Method	TBLASTX:Maize
Start	14	End	1540
GI	none	Score	531
Exons	14..349, 19..318, 20..328, 332..643, 354..854, 370..855, 649..855, 852..1013, 857..1039, 858..1040, 1049..1093, 1070..1123, 1070..1099, 1075..1122, 1116..1142, 1120..1143, 1173..1235, 1175..1237, 1190..1237, 1209..1331, 1242..1286, 1258..1380, 1265..1366, 1365..1427, 1366..1425, 1422..1448, 1427..1540, 1429..1539		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679
Name	OJ000150_25.0124.C47.o2.tc	Method	TBLASTX:Cress
Start	14	End	327
GI	none	Score	420
Exons	14..325, 19..318, 22..327		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679

Name OJ000150\_25.0124.C47.o3.tw  
Start 14  
GI none  
Exons 14..295, 19..294

Method TBLASTX:Wheat  
End 295  
Score 404

Seq. No. 27215  
Gene No. 56348  
Start 4143  
Name OJ000150\_25.0124.C47.o3.ts  
Start 76  
GI none  
Exons 76..318, 77..319, 84..323, 223..324, 363..638, 365..400, 366..695, 370..696

Seq. ID OJ000150\_25.0124.C47  
Strand -  
End 4679  
Method TBLASTX:Soybean  
End 696  
Score 308

Seq. No. 27215  
Gene No. 56348  
Start 4143  
Name OJ000150\_25.0124.C47.o3.tc  
Start 357  
GI none  
Exons 357..389, 405..629, 406..756, 406..750, 438..752, 689..754

Seq. ID OJ000150\_25.0124.C47  
Strand -  
End 4679  
Method TBLASTX:Cress  
End 756  
Score 251

Seq. No. 27215  
Gene No. 56348  
Start 4143  
Name OJ000150\_25.0124.C47.o4.ts  
Start 1448  
GI none  
Exons 1448..1552, 1449..1568, 1450..1536, 1488..1553, 1512..1598, 1520..1594, 1532..1606, 1587..1721, 1605..1634, 1640..1738, 1656..1730, 1657..1770, 1723..1794, 1748..1816, 1776..1808, 1818..1853, 1818..1853, 1947..1979, 1948..1977, 2035..2106, 2050..2109, 2052..2117

Seq. ID OJ000150\_25.0124.C47  
Strand -  
End 4679  
Method TBLASTX:Soybean  
End 2117  
Score 137

Seq. No. 27215  
Gene No. 56348  
Start 4143  
Name OJ000150\_25.0124.C47.o4.tc  
Start 1469  
GI none  
Exons 1469..1537, 1471..1536, 1488..1538, 1497..1538, 1532..1594, 1532..1609, 1533..1604, 1590..1640, 1668..1730, 1671..1709, 1717..1941, 1723..1830, 1815..1880, 1948..1977, 1987..2025

Seq. ID OJ000150\_25.0124.C47  
Strand -  
End 4679  
Method TBLASTX:Cress  
End 2025  
Score 88

Seq. No. 27215  
Gene No. 56348  
Start 4143  
Name OJ000150\_25.0124.C47.o3.tm  
Start 1625  
GI none  
Exons 1625..1957, 1626..1958, 1627..1956, 1906..1959, 1953..2207, 1954..2160, 2192..2257

Seq. ID OJ000150\_25.0124.C47  
Strand -  
End 4679  
Method TBLASTX:Maize  
End 2257  
Score 470

Seq. No. 27215  
Gene No. 56348  
Start 4143  
Name OJ000150\_25.0124.C47.o1.tc

Seq. ID OJ000150\_25.0124.C47  
Strand -  
End 4679  
Method TBLASTX:Cress

Start	2392	End	4380
GI	none	Score	75
Exons	2392..2562, 2486..2716, 2487..2726, 2552..2716, 2559..2720, 2647..2730, 2697..3041, 2718..3041, 3098..3370, 3099..3356, 3358..3396, 3359..3397, 3396..4133, 3396..4379, 3802..4380		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679
Name	OJ000150_25.0124.C47.o4.tm	Method	TBLASTX:Maize
Start	2425	End	2809
GI	none	Score	131
Exons	2425..2562, 2426..2755, 2465..2755, 2647..2772, 2740..2808, 2762..2809		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679
Name	OJ000150_25.0124.C47.o1.ts	Method	TBLASTX:Soybean
Start	2486	End	3781
GI	none	Score	69
Exons	2486..2875, 2487..3041, 2488..2562, 2570..3037, 2577..3041, 3098..3370, 3099..3356, 3358..3396, 3359..3397, 3396..3779, 3397..3717, 3410..3781		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679
Name	OJ000150_25.0124.C47.o2.tm	Method	TBLASTX:Maize
Start	2913	End	4221
GI	none	Score	67
Exons	2913..3041, 2918..3040, 3002..3265, 3098..3370, 3099..3356, 3358..3396, 3359..3394, 3396..3692, 3400..3681, 3693..3935, 3711..4202, 3802..4221		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679
Name	OJ000150_25.0124.C47.o4.tw	Method	TBLASTX:Wheat
Start	2945	End	3325
GI	none	Score	44
Exons	2945..3040, 2946..3041, 3098..3325, 3099..3302		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679
Name	OJ000150_25.0124.C47.o1.tw	Method	TBLASTX:Wheat
Start	3411	End	4106
GI	none	Score	237
Exons	3411..3692, 3412..3681, 3417..3686, 3711..3773, 3780..3818, 3829..4098, 3843..4106		

Seq. No.	27215	Seq. ID	OJ000150_25.0124.C47
Gene No.	56348	Strand	-
Start	4143	End	4679
Name	OJ000150_25.0124.C47.o2.ts	Method	TBLASTX:Soybean
Start	3782	End	4377

GI none Score 289  
Exons 3782..4042, 3783..4133, 3783..4376, 3784..4377

Seq. No. 27215 Seq. ID OJ000150\_25.0124.C47  
Gene No. 56348 Strand -  
Start 4143 End 4679  
Name OJ000150\_25.0124.C47.o2.gp Method AAT/GAP  
Start 4143 End 4659  
GI uC-osf1M202083h12b1 Score 968  
Exons 4143..4659  
GI Descrip. '552857 3.0e-25 (M31464) atpB gene product [Oryza sativa]'

Seq. No. 27215 Seq. ID OJ000150\_25.0124.C47  
Gene No. 56348 Strand -  
Start 4143 End 4679  
Name OJ000150\_25.0124.C47.o5.tm Method TBLASTX:Maize  
Start 4221 End 4474  
GI none Score 261  
Exons 4221..4400, 4223..4432, 4423..4452, 4423..4452, 4457..4474

Seq. No. 27215 Seq. ID OJ000150\_25.0124.C47  
Gene No. 56348 Strand -  
Start 4143 End 4679  
Name OJ000150\_25.0124.C47.o2.tw Method TBLASTX:Wheat  
Start 4250 End 4679  
GI none Score 215  
Exons 4250..4399, 4250..4345, 4252..4428, 4252..4389, 4351..4461,  
4396..4482, 4397..4471, 4460..4654, 4469..4636, 4470..4679,  
4471..4677, 4473..4679

Seq. No. 27215 Seq. ID OJ000150\_25.0124.C47  
Gene No. 56348 Strand -  
Start 4143 End 4679  
Name OJ000150\_25.0124.C47.o6.tm Method TBLASTX:Maize  
Start 4475 End 4665  
GI none Score 199  
Exons 4475..4612, 4475..4612, 4476..4637, 4477..4614, 4605..4661,  
4609..4665, 4609..4662, 4611..4664

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56349 Strand +  
Start 850 End 1579  
Name OJ000150\_25.0124.C48.o2.gp Method AAT/GAP  
Start 850 End 1579  
GI 24824\_1.R1084 Score 1379  
Exons 850..1579  
GI Descrip. '476752 5.0e-87 (L24073) rubisco large subunit [Oryza sativa]  
>gi\_1583954\_prf\_2121489A  
RuBisCO:SUBUNIT=large:ISOTYPE=truncated [Oryza sativa]'

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56350 Strand +  
Start 1676 End 2501  
Name OJ000150\_25.0124.C48.o3.gp Method AAT/GAP  
Start 1676 End 2501  
GI 14384\_1.R1084 Score 1358  
Exons 1676..2387, 2473..2501

GI Descrip. '5881726/dbj|BAA84417.1| 3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]'

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56351	Strand	+
Start	4317	End	4940
Name	OJ000150_25.0124.C48.o4.gp	Method	AAT/GAP
Start	4317	End	4940
GI	7528_2.R1084	Score	1143
Exons	4317..4940		

GI Descrip. '140291/sp|P12206|YCF4\_ORYSA 7.0e-68 HYPOTHETICAL 21.5 KD PROTEIN (ORF 185) >gi\_82541\_pir\_S05116 hypothetical protein 185 - rice chloroplast >gi\_11997\_emb\_CAA33958\_(X15901) ORF185 [Oryza sativa] >gi\_226618\_prf\_1603356AQ ORF 185 [Oryza sativa]'

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56352	Strand	+
Start	6351	End	6792
Name	OJ000150_25.0124.C48.o6.gp	Method	AAT/GAP
Start	6351	End	6792
GI	uC-osflm202092b08b1	Score	831
Exons	6351..6792		

GI Descrip. '118048/sp|P07888|CYF\_ORYSA 5.0e-65 APOCYTOCHROME F PRECURSOR >gi\_65615\_pir\_CFRZ plastoquinol--plastocyanin reductase (EC 1.10.99.1) cytochrome f precursor - rice chloroplast >gi\_12000\_emb\_CAA33961\_(X15901) cytochrome f [Oryza sativa] >gi\_226621\_prf\_1603356AU cytochrome f [Oryza sativa]'

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56353	Strand	+
Start	11357	End	11879
Name	OJ000150_25.0124.C48.o7.gp	Method	AAT/GAP
Start	11357	End	11879
GI	uC-osflm202104g03b1	Score	1026
Exons	11357..11879		

GI Descrip. '131211/sp|P19443|PSAJ\_MAIZE 6.0e-10 PHOTOSYSTEM I REACTION CENTRE SUBUNIT IX (PSI-J) >gi\_1363533\_pir\_S58571 photosystem I protein psaJ - maize chloroplast >gi\_552734\_(J04502) ORF42 [Zea mays] >gi\_902241\_emb\_CAA60305\_(X86563) psaJ [Zea mays]'

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56354	Strand	+
Start	15424	End	15552
Name	OJ000150_25.0124.C48.o9.gp	Method	AAT/GAP
Start	15424	End	15552
GI	LIB3432-057-P1-K1-A8	Score	169
Exons	15424..15552		

GI Descrip. '11957/emb|X15901|CHOSXX 7.0e-52 Rice complete chloroplast genome'

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56355	Strand	-
Start	1	End	386
Name	OJ000150_25.0124.C48.o1.gp	Method	AAT/GAP
Start	1	End	386
GI	uC-osflm202083h12b1	Score	740
Exons	1..386		

GI Descrip. '552857 3.0e-25 (M31464) atpB gene product [Oryza sativa]'

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56356	Strand	-
Start	4944	End	5481
Name	OJ000150_25.0124.C48.o5.gp	Method	AAT/GAP
Start	4944	End	5481
GI	2653_1.R1084	Score	1052
Exons	4944..5481		

GI Descrip. '11998/emb|CAA33959| 5.0e-35 (X15901) ORF85 [Oryza sativa]  
>gi\_226619\_prf\_1603356AR ORF 85A [Oryza sativa]'

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56357	Strand	-
Start	14195	End	14362
Name	OJ000150_25.0124.C48.o8.gp	Method	AAT/GAP
Start	14195	End	14362
GI	LIB3431-017-P1-K1-H4	Score	283
Exons	14195..14362		

GI Descrip. '1173189/sp|P12340|RR12\_MAIZE 8.0e-18 CHLOROPLAST 30S RIBOSOMAL  
PROTEIN S12 >gi\_2119091\_pir\_S58629 ribosomal protein S12 -  
maize chloroplast >gi\_342619 (M17841) ribosomal protein S12 [Zea  
mays] >gi\_1216141\_emb\_CAA60309\_ (X86563) ribosomal protein S12  
[Zea mays]'

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o7.tw	Method	TBLASTX:Wheat
Start	1	End	409
GI	none	Score	173
Exons	1..126, 1..72, 3..116, 78..188, 123..209, 124..198, 187..408, 196..375, 200..409		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o14.tm	Method	TBLASTX:Maize
Start	96	End	392
GI	none	Score	49
Exons	96..152, 96..155, 97..159, 139..339, 150..179, 177..341, 184..339, 185..346, 200..364, 332..388, 336..392, 338..391		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o11.tm	Method	TBLASTX:Maize
Start	534	End	843
GI	none	Score	186
Exons	534..656, 538..657, 633..743, 642..698, 644..721, 646..741, 647..751, 716..841, 718..843, 760..843		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o2.tw	Method	TBLASTX:Wheat
Start	577	End	1262



GI	none	Score	203
Exons	577..738, 579..722, 696..794, 725..787, 750..824, 788..1216, 808..1260, 808..1260, 837..1262, 1079..1261		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o2.ts	Method	TBLASTX:Soybean
Start	817	End	1520
GI	none	Score	1013
Exons	817..1503, 817..1518, 840..1520, 1005..1520		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o4.tc	Method	TBLASTX:Cress
Start	826	End	1302
GI	none	Score	41
Exons	826..858, 860..1210, 861..1283, 862..1302, 865..1302		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o23.tm	Method	TBLASTX:Maize
Start	844	End	1590
GI	none	Score	935
Exons	844..1542, 855..1538, 856..1584, 1540..1590, 1543..1590		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o11.tw	Method	TBLASTX:Wheat
Start	1263	End	1445
GI	none	Score	319
Exons	1263..1445, 1264..1443		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o1.tw	Method	TBLASTX:Wheat
Start	1588	End	2340
GI	none	Score	926
Exons	1588..2334, 1589..2290, 1589..2335, 1590..2318, 1594..2340		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o16.tm	Method	TBLASTX:Maize
Start	1593	End	1881
GI	none	Score	205
Exons	1593..1877, 1594..1881, 1598..1876		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o15.tc	Method	TBLASTX:Cress
Start	1826	End	1972

GI	none	Score	164
Exons	1826..1972, 1827..1961		
Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o6.tm	Method	TBLASTX:Maize
Start	1935	End	2471
GI	none	Score	310
Exons	1935..2294, 1944..2150, 1957..2304, 1960..2304, 2412..2471, 2416..2469		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o7.tc	Method	TBLASTX:Cress
Start	2055	End	2324
GI	none	Score	353
Exons	2055..2186, 2056..2322, 2056..2322, 2057..2323, 2223..2324		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o20.tm	Method	TBLASTX:Maize
Start	2611	End	3356
GI	none	Score	52
Exons	2611..2643, 2613..2663, 2617..2649, 2638..2670, 2639..2671, 2656..2760, 2656..2742, 2670..2762, 3294..3356		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o4.ts	Method	TBLASTX:Soybean
Start	3360	End	5851
GI	none	Score	140
Exons	3360..3581, 3419..3538, 4041..4178, 4043..4132, 4053..4139, 4054..4140, 4500..4661, 4505..4645, 4649..4852, 4657..4698, 4683..4898, 4683..4895, 4918..4980, 4921..4980, 4929..4985, 5007..5066, 5007..5084, 5380..5448, 5392..5451, 5394..5456, 5473..5847, 5477..5851, 5483..5587, 5503..5850, 5666..5851		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o7.tm	Method	TBLASTX:Maize
Start	3995	End	4425
GI	none	Score	273
Exons	3995..4174, 4001..4174, 4177..4275, 4177..4257, 4178..4291, 4272..4343, 4275..4343, 4277..4363, 4311..4409, 4333..4410, 4336..4425, 4340..4411		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o2.tc	Method	TBLASTX:Cress
Start	4506	End	5847
GI	none	Score	699

Exons 4506..4991, 4508..4996, 4509..4997, 4931..4999, 4978..5067,  
4983..5066, 5395..5469, 5469..5828, 5470..5847, 5474..5845

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56358 Strand -  
Start 16102 End 16479  
Name OJ000150\_25.0124.C48.o4.tm Method TBLASTX:Maize  
Start 4664 End 5261  
GI none Score 46  
Exons 4664..4696, 4665..4697, 4675..5082, 4680..5084, 4683..5084,  
5170..5193, 5171..5194, 5190..5237, 5191..5238, 5192..5236,  
5229..5261, 5233..5253

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56358 Strand -  
Start 16102 End 16479  
Name OJ000150\_25.0124.C48.o1.ts Method TBLASTX:Soybean  
Start 5855 End 7391  
GI none Score 332  
Exons 5855..6172, 5875..6180, 6401..6610, 6407..7390, 6408..7391

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56358 Strand -  
Start 16102 End 16479  
Name OJ000150\_25.0124.C48.o12.tc Method TBLASTX:Cress  
Start 5867 End 6084  
GI none Score 228  
Exons 5867..6082, 5869..6084

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56358 Strand -  
Start 16102 End 16479  
Name OJ000150\_25.0124.C48.o1.tc Method TBLASTX:Cress  
Start 6085 End 7351  
GI none Score 91  
Exons 6085..6165, 6086..6157, 6387..7187, 6401..6610, 6408..7196,  
7293..7349, 7293..7349, 7294..7350, 7301..7351

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56358 Strand -  
Start 16102 End 16479  
Name OJ000150\_25.0124.C48.o6.tw Method TBLASTX:Wheat  
Start 6176 End 6602  
GI none Score 39  
Exons 6176..6202, 6177..6212, 6178..6216, 6206..6277, 6207..6278,  
6207..6326, 6222..6347, 6262..6474, 6280..6444, 6282..6473,  
6374..6475, 6477..6602, 6480..6599, 6482..6601

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56358 Strand -  
Start 16102 End 16479  
Name OJ000150\_25.0124.C48.o5.tm Method TBLASTX:Maize  
Start 6228 End 6708  
GI none Score 58  
Exons 6228..6266, 6230..6274, 6263..6610, 6264..6707, 6268..6708

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48

Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o15.tm	Method	TBLASTX:Maize
Start	6709	End	6877
GI	none	Score	273
Exons	6709..6876, 6710..6877, 6711..6875		
Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o12.tw	Method	TBLASTX:Wheat
Start	6934	End	7050
GI	none	Score	205
Exons	6934..7050, 6936..7049, 6937..7050		
Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o8.tw	Method	TBLASTX:Wheat
Start	7169	End	7496
GI	none	Score	377
Exons	7169..7432, 7176..7496, 7176..7496		
Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o8.tc	Method	TBLASTX:Cress
Start	8315	End	8652
GI	none	Score	273
Exons	8315..8560, 8318..8560, 8599..8652, 8600..8650		
Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o10.tm	Method	TBLASTX:Maize
Start	8369	End	8652
GI	none	Score	364
Exons	8369..8584, 8369..8623, 8584..8652, 8585..8650, 8586..8651		
Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o3.tw	Method	TBLASTX:Wheat
Start	8604	End	9046
GI	none	Score	667
Exons	8604..9044, 8605..9030, 8606..9046		
Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o3.tc	Method	TBLASTX:Cress
Start	8691	End	9269
GI	none	Score	66
Exons	8691..8747, 8691..8744, 8692..8748, 8693..8749, 8693..8749, 8750..8878, 8751..8879, 8752..8880, 8881..9162, 8884..9150, 8885..9163, 8886..9158, 8886..9167, 9162..9194, 9166..9195, 9198..9269, 9202..9264		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o19.tm	Method	TBLASTX:Maize
Start	9111	End	9263
GI	none	Score	89
Exons	9111..9164, 9111..9158, 9112..9180, 9113..9172, 9159..9218, 9166..9219, 9166..9219, 9219..9263, 9222..9263		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o9.tw	Method	TBLASTX:Wheat
Start	9124	End	9525
GI	none	Score	86
Exons	9124..9198, 9125..9175, 9145..9360, 9156..9353, 9157..9360, 9340..9432, 9354..9500, 9379..9522, 9400..9525		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o18.tm	Method	TBLASTX:Maize
Start	9317	End	9707
GI	none	Score	64
Exons	9317..9370, 9321..9377, 9322..9375, 9350..9442, 9382..9438, 9436..9477, 9454..9516, 9457..9519, 9523..9600, 9524..9595, 9524..9604, 9630..9707, 9632..9694		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o4.tw	Method	TBLASTX:Wheat
Start	9887	End	10483
GI	none	Score	168
Exons	9887..10015, 9891..10016, 9894..10016, 10040..10081, 10074..10157, 10079..10156, 10131..10208, 10160..10210, 10161..10208, 10193..10318, 10194..10319, 10198..10317, 10206..10319, 10307..10483, 10312..10482		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o3.tm	Method	TBLASTX:Maize
Start	10049	End	10792
GI	none	Score	139
Exons	10049..10207, 10074..10199, 10076..10225, 10081..10221, 10194..10280, 10195..10281, 10195..10278, 10274..10444, 10274..10444, 10276..10446, 10461..10493, 10462..10515, 10488..10514, 10496..10525, 10512..10619, 10513..10581, 10514..10588, 10576..10758, 10577..10792, 10579..10785, 10580..10786		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o10.tc	Method	TBLASTX:Cress

Start	10376	End	10719
GI	none	Score	74
Exons	10376..10462, 10378..10443, 10518..10583, 10521..10583, 10593..10718, 10597..10719, 10604..10714		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o8.ts	Method	TBLASTX:Soybean
Start	10518	End	10733
GI	none	Score	230
Exons	10518..10583, 10577..10732, 10578..10733		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o10.tw	Method	TBLASTX:Wheat
Start	11254	End	11642
GI	none	Score	83
Exons	11254..11313, 11254..11313, 11255..11332, 11296..11334, 11310..11333, 11357..11605, 11361..11627, 11367..11642		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o8.tm	Method	TBLASTX:Maize
Start	11338	End	11654
GI	none	Score	380
Exons	11338..11634, 11339..11647, 11340..11654, 11340..11654		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o7.ts	Method	TBLASTX:Soybean
Start	11413	End	12776
GI	none	Score	168
Exons	11413..11520, 11415..11567, 11415..11567, 11963..12127, 11973..12203, 11986..12216, 12000..12203, 12466..12537, 12468..12530, 12474..12518, 12525..12587, 12597..12767, 12599..12763, 12599..12772, 12615..12776		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o13.tc	Method	TBLASTX:Cress
Start	11416	End	11576
GI	none	Score	165
Exons	11416..11520, 11416..11562, 11418..11576		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o13.tm	Method	TBLASTX:Maize
Start	11827	End	12174
GI	none	Score	94
Exons	11827..11895, 11837..11920, 11927..12136, 11938..12174, 11970..12170, 11980..12174		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o9.tc	Method	TBLASTX:Cress
Start	11986	End	12919
GI	none	Score	280
Exons	11986..12204, 12003..12203, 12471..12518, 12495..12587, 12599..12763, 12599..12763, 12615..12776, 12821..12919		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o11.tc	Method	TBLASTX:Cress
Start	13518	End	14095
GI	none	Score	37
Exons	13518..13547, 13584..13619, 13587..13616, 13609..13668, 13622..13669, 13705..13791, 13706..13780, 13797..13895, 13798..13941, 13880..13942, 13978..14022, 13981..14022, 14051..14095		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o5.ts	Method	TBLASTX:Soybean
Start	13614	End	14663
GI	none	Score	73
Exons	13614..13664, 13622..13672, 13698..13739, 13702..13779, 13703..13729, 13741..13785, 13775..13843, 13796..13840, 13797..13850, 13840..13905, 13846..13938, 13847..13939, 13880..13951, 14034..14099, 14041..14094, 14147..14308, 14150..14326, 14175..14309, 14311..14355, 14329..14355, 14506..14661, 14506..14661, 14514..14663, 14516..14662		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o17.tm	Method	TBLASTX:Maize
Start	14005	End	14193
GI	none	Score	62
Exons	14005..14031, 14007..14033, 14035..14193, 14037..14192		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o1.tm	Method	TBLASTX:Maize
Start	14194	End	15200
GI	none	Score	230
Exons	14194..14322, 14195..14326, 14195..14326, 14196..14327, 14314..14358, 14320..14358, 14359..14382, 14360..14386, 14360..14386, 14389..15198, 14394..15200, 14395..15177		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o3.ts	Method	TBLASTX:Soybean
Start	14665	End	15155

GI	none	Score	374
Exons	14665..15093, 14675..15094, 14676..15113, 14922..15113, 15132..15155		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o6.tc	Method	TBLASTX:Cress
Start	14683	End	15113
GI	none	Score	351
Exons	14683..15093, 14684..15094, 14727..15113		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o9.tm	Method	TBLASTX:Maize
Start	15411	End	15701
GI	none	Score	167
Exons	15411..15527, 15411..15527, 15412..15531, 15518..15700, 15531..15701		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o14.tc	Method	TBLASTX:Cress
Start	15580	End	15859
GI	none	Score	166
Exons	15580..15852, 15593..15859		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o5.tc	Method	TBLASTX:Cress
Start	16036	End	16479
GI	none	Score	206
Exons	16036..16182, 16037..16204, 16043..16183, 16181..16477, 16222..16479		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o10.gp	Method	AAT/GAP
Start	16102	End	16479
GI	2896_1.R1084	Score	692
Exons	16102..16479		
GI Descrip.	'131271/sp P12157 PSBB_ORYSA 2.0e-88 PHOTOSYSTEM II P680 CHLOROPHYLL A APOPROTEIN (CP-47 PROTEIN) >gi_72705_pir_QJRZ6A photosystem II chlorophyll a-binding protein psbB - rice chloroplast >gi_12013_emb_CAA33973 (X15901) PSII 47kDa protein [Oryza sativa] >gi_226634_prf_1603356BH photosystem II 47kD protein [Oryza sativa]'		

Seq. No.	27216	Seq. ID	OJ000150_25.0124.C48
Gene No.	56358	Strand	-
Start	16102	End	16479
Name	OJ000150_25.0124.C48.o5.tw	Method	TBLASTX:Wheat
Start	16144	End	16477



GI none Score 522  
Exons 16144..16188, 16145..16477, 16145..16474

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56358 Strand -  
Start 16102 End 16479  
Name OJ000150\_25.0124.C48.o12.tm Method TBLASTX:Maize  
Start 16181 End 16478  
GI none Score 221  
Exons 16181..16321, 16182..16319, 16322..16474, 16325..16477,  
16377..16478

Seq. No. 27216 Seq. ID OJ000150\_25.0124.C48  
Gene No. 56358 Strand -  
Start 16102 End 16479  
Name OJ000150\_25.0124.C48.o6.ts Method TBLASTX:Soybean  
Start 16253 End 16479  
GI none Score 325  
Exons 16253..16477, 16253..16471, 16255..16479

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
Gene No. 56359 Strand +  
Start 1569 End 2075  
Name OJ000150\_25.0124.C49.o3.gp Method AAT/GAP  
Start 1569 End 2075  
GI uC-osflcyp011b01b1 Score 987  
Exons 1569..2075  
GI Descrip. '343210.5.0e-78 (M35995) apocytochrome b6 (alt.) [Oryza sativa]  
>gi\_226762\_prf\_1604469A cytochrome b6 [Oryza sativa]'

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
Gene No. 56360 Strand +  
Start 8095 End 9198  
Name OJ000150\_25.0124.C49.o8.gp Method AAT/GAP  
Start 8095 End 9198  
GI 2291\_1.R1084 Score 2144  
Exons 8095..9198  
GI Descrip. '133936/sp|P12146|RR3\_ORYSA 3.0e-27 CHLOROPLAST 30S RIBOSOMAL  
PROTEIN S3 >gi\_70867\_pir\_R3RZ3 ribosomal protein S3 - rice  
chloroplast >gi\_12025\_emb\_CAA33934 (X15901) ribosomal protein  
S3 [Oryza sativa] >gi\_226646\_prf\_1603356BW ribosomal protein S3  
[Oryza sativa]'

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
Gene No. 56361 Strand +  
Start 9213 End 10685  
Name OJ000150\_25.0124.C49.o9.gp Method AAT/GAP  
Start 9213 End 10685  
GI 3073\_1.R1084 Score 2931  
Exons 9213..10685  
GI Descrip. '133936/sp|P12146|RR3\_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL  
PROTEIN S3 >gi\_70867\_pir\_R3RZ3 ribosomal protein S3 - rice  
chloroplast >gi\_12025\_emb\_CAA33934 (X15901) ribosomal protein  
S3 [Oryza sativa] >gi\_226646\_prf\_1603356BW ribosomal protein S3  
[Oryza sativa]'

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49

Gene No. 56362 Strand -  
 Start 668 End 1119  
 Name OJ000150\_25.0124.C49.o1.gp Method AAT/GAP  
 Start 668 End 1119  
 GI uC-osflcyp003h11b1 Score 872  
 Exons 668..1119  
 GI Descrip. '131332/sp|P09449|PSBH ORYSA 1.0e-09 PHOTOSYSTEM II 10 KD  
 PHOSPHOPROTEIN >gi\_72716\_pir\_F2RZ0P photosystem II  
 phosphoprotein psbH - rice chloroplast >gi\_11953\_emb\_CAA31204\_  
 (X12695) 10 kD phosphoprotein (AA 1 - 73) [Oryza sativa]  
 >gi\_12016\_emb\_CAA33976\_ (X15901) PSII 10kDa phosphoprotein  
 [Oryza sativa] >gi\_226635\_prf\_1603356BJ photosystem II 10kD  
 phosphoprotein [Oryza sativa]'

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
 Gene No. 56363 Strand -  
 Start 1249 End 1412  
 Name OJ000150\_25.0124.C49.o2.gp Method AAT/GAP  
 Start 1249 End 1412  
 GI uC-osflcyp084g07a1 Score 201  
 Exons 1249..1412  
 GI Descrip. '11957/emb|X15901|CHOSXX 7.0e-38 Rice complete chloroplast  
 genome'

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
 Gene No. 56364 Strand -  
 Start 4550 End 5115  
 Name OJ000150\_25.0124.C49.o4.gp Method AAT/GAP  
 Start 4550 End 5115  
 GI 2798177 Score 1010  
 Exons 4550..5115  
 GI Descrip. 5881726/dbj|BAA84417.1| 3.0e-24 (AP000423) RNA polymerase alpha  
 subunit [Arabidopsis thaliana]

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
 Gene No. 56365 Strand -  
 Start 5898 End 6288  
 Name OJ000150\_25.0124.C49.o5.gp Method AAT/GAP  
 Start 5898 End 6288  
 GI 5003883 Score 782  
 Exons 5898..6288  
 GI Descrip. 11957/emb|X15901|CHOSXX 1.0e-166 Rice complete chloroplast  
 genome

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
 Gene No. 56366 Strand -  
 Start 6859 End 7444  
 Name OJ000150\_25.0124.C49.o6.gp Method AAT/GAP  
 Start 6859 End 7444  
 GI 4811.R1084 Score 1023  
 Exons 6859..7444  
 GI Descrip. '132672/sp|P12137|RK14 ORYSA 6.0e-57 CHLOROPLAST 50S RIBOSOMAL  
 PROTEIN L14 >gi\_71224\_pir\_R5RZ14 ribosomal protein L14 - rice  
 chloroplast >gi\_12023\_emb\_CAA33932\_ (X15901) ribosomal protein  
 L14 [Oryza sativa] >gi\_226644\_prf\_1603356BU ribosomal protein  
 L14 [Oryza sativa]'

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56367	Strand	-
Start	7749	End	8012
Name	OJ000150_25.0124.C49.o7.gp	Method	AAT/GAP
Start	7749	End	8012
GI	LIB3432-015-P1-K1-H8	Score	450
Exons	7749..8012		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-129 Rice complete chloroplast genome'		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o2.tc	Method	TBLASTX:Cress
Start	56	End	2586
GI	none	Score	64
Exons	56..136, 56..136, 135..257, 136..228, 136..264, 289..486, 293..496, 293..490, 497..523, 498..536, 530..703, 534..635, 535..765, 536..778, 743..769, 849..875, 1706..2200, 1709..2356, 1711..2373, 1717..2355, 2409..2480, 2411..2479, 2414..2488, 2532..2585, 2532..2585, 2548..2586		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o9.ts	Method	TBLASTX:Soybean
Start	225	End	901
GI	none	Score	228
Exons	225..251, 262..441, 284..442, 404..472, 478..537, 489..527, 530..703, 535..765, 535..765, 542..778, 743..769, 850..900, 851..901		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o6.tm	Method	TBLASTX:Maize
Start	308	End	1072
GI	none	Score	785
Exons	308..814, 308..703, 459..821, 532..819, 720..830, 799..876, 810..875, 810..881, 851..880, 868..918, 868..918, 869..919, 909..1040, 920..952, 924..1004, 998..1039, 1006..1041, 1033..1068, 1046..1072		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o13.tw	Method	TBLASTX:Wheat
Start	390	End	639
GI	none	Score	62
Exons	390..422, 390..557, 392..559, 532..558, 558..626, 559..627, 559..639, 560..628		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o2.ts	Method	TBLASTX:Soybean
Start	1202	End	2448

GI	none	Score	57
Exons	1202..1246, 1248..1301, 1250..1300, 1308..1346, 1310..1342, 1627..1671, 1628..1690, 1628..1687, 1667..2383, 1679..2200, 1717..2382, 2412..2441, 2413..2448		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o8.tm	Method	TBLASTX:Maize
Start	1712	End	2356
GI	none	Score	967
Exons	1712..2356, 1715..2182, 1774..2355		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o14.tm	Method	TBLASTX:Maize
Start	2522	End	2763
GI	none	Score	290
Exons	2522..2716, 2523..2714, 2718..2762, 2719..2760, 2719..2763		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o4.ts	Method	TBLASTX:Soybean
Start	2671	End	4233
GI	none	Score	75
Exons	2671..2763, 2671..2790, 2766..2912, 2822..2911, 2928..2954, 3031..3078, 3037..3078, 3190..3645, 3208..3777, 3215..3754, 3215..3781, 3225..3779, 3685..3783, 3802..3882, 3825..3881, 4037..4213, 4039..4233		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o13.tc	Method	TBLASTX:Cress
Start	3207	End	3454
GI	none	Score	367
Exons	3207..3302, 3208..3453, 3221..3454		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o15.tc	Method	TBLASTX:Cress
Start	3455	End	3660
GI	none	Score	316
Exons	3455..3658, 3455..3658, 3457..3660		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o16.tc	Method	TBLASTX:Cress
Start	4060	End	4502
GI	none	Score	36
Exons	4060..4125, 4111..4149, 4116..4154, 4166..4210, 4253..4489, 4262..4489, 4308..4502, 4360..4491, 4371..4502		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o3.ts	Method	TBLASTX:Soybean
Start	4253	End	5017
GI	none	Score	523
Exons	4253..4963, 4253..5017, 4260..4988, 4324..5010		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o9.tm	Method	TBLASTX:Maize
Start	4451	End	4925
GI	none	Score	662
Exons	4451..4924, 4452..4925		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o7.tc	Method	TBLASTX:Cress
Start	4745	End	5332
GI	none	Score	295
Exons	4745..5017, 4749..4988, 5000..5059, 5032..5076, 5032..5076, 5059..5232, 5065..5199, 5073..5234, 5073..5243, 5102..5257, 5234..5332, 5235..5330, 5236..5331		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o15.tm	Method	TBLASTX:Maize
Start	4933	End	5195
GI	none	Score	51
Exons	4933..5007, 4952..5011, 4953..4991, 4954..5007, 5061..5189, 5074..5190, 5074..5190, 5076..5195, 5102..5194		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o11.tm	Method	TBLASTX:Maize
Start	5212	End	5499
GI	none	Score	188
Exons	5212..5325, 5213..5329, 5213..5329, 5327..5497, 5328..5498, 5329..5499, 5330..5497		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o14.ts	Method	TBLASTX:Soybean
Start	5287	End	5539
GI	none	Score	91
Exons	5287..5379, 5288..5458, 5297..5458, 5438..5539, 5439..5531, 5443..5532		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o2.tm	Method	TBLASTX:Maize

Start	5500	End	7017
GI	none	Score	38
Exons	5500..5532, 5501..5551, 5524..5607, 5544..5606, 5556..5633, 5563..5634, 5618..5635, 5652..5891, 5655..5876, 5674..5892, 5898..6176, 5899..6177, 5915..6178, 5919..6179, 5927..5977, 5951..6229, 5962..6240, 6184..6225, 6185..6223, 6187..6267, 6275..6319, 6280..6333, 6282..6332, 6351..6434, 6352..6999, 6352..6882, 6371..7015, 6582..7016, 6955..7017		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o15.ts	Method	TBLASTX:Soybean
Start	5984	End	6173
GI	none	Score	174
Exons	5984..6169, 5985..6173		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o3.tw	Method	TBLASTX:Wheat
Start	6275	End	6733
GI	none	Score	45
Exons	6275..6319, 6281..6319, 6282..6332, 6330..6350, 6351..6431, 6352..6726, 6371..6724, 6371..6733, 6456..6725		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o1.ts	Method	TBLASTX:Soybean
Start	6364	End	12068
GI	none	Score	158
Exons	6364..6528, 6364..6576, 6371..6580, 6371..6598, 6571..6777, 6587..6778, 6591..6899, 6593..6814, 6812..6838, 6855..6920, 6906..7208, 6917..7207, 7026..7220, 7196..7297, 7203..7322, 7383..7616, 7399..7761, 7399..7794, 7413..7802, 7418..7804, 7665..7799, 9027..9338, 9027..9407, 9028..9396, 9411..9518, 9582..9731, 9582..9731, 9583..9741, 9625..9732, 9641..9736, 9726..9755, 10336..10488, 10340..10573, 10350..10574, 10578..10604, 10579..10602, 10799..11143, 10852..11142, 10853..11182, 10908..11147, 11088..11297, 11115..11312, 11215..11313, 11284..11430, 11298..11393, 11299..11397, 11389..11433, 11391..11432, 11392..11433, 11433..11612, 11435..11611, 11436..11663, 11617..11694, 11618..11695, 11673..12068, 11687..11980		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o8.tc	Method	TBLASTX:Cress
Start	6364	End	6884
GI	none	Score	156
Exons	6364..6576, 6367..6537, 6371..6568, 6571..6780, 6584..6778, 6593..6787, 6598..6786, 6802..6843, 6803..6835, 6846..6884		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-

Start	17779	End	20968
Name	OJ000150_25.0124.C49.o9.tw	Method	TBLASTX:Wheat
Start	6805	End	7169
GI	none	Score	60
Exons	6805..6840, 6806..6844, 6814..6882, 6824..6880, 6826..6882, 6891..7169, 6891..7166, 6908..7168		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o12.tc	Method	TBLASTX:Cress
Start	6910	End	7297
GI	none	Score	114
Exons	6910..7110, 6911..7114, 6918..7115, 7115..7162, 7115..7207, 7116..7208, 7183..7215, 7196..7297, 7203..7295		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o7.tm	Method	TBLASTX:Maize
Start	7058	End	8897
GI	none	Score	75
Exons	7058..7102, 7059..7103, 7103..7804, 7104..7799, 8841..8897		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o6.tw	Method	TBLASTX:Wheat
Start	7322	End	7713
GI	none	Score	80
Exons	7322..7375, 7324..7374, 7326..7379, 7329..7712, 7330..7713		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o9.tc	Method	TBLASTX:Cress
Start	7331	End	7804
GI	none	Score	48
Exons	7331..7363, 7437..7502, 7482..7802, 7483..7758, 7493..7804, 7497..7796		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o10.tw	Method	TBLASTX:Wheat
Start	7745	End	15895
GI	none	Score	131
Exons	7745..7819, 7746..7820, 7790..7915, 7816..7920, 7820..7915, 7825..7950, 7934..7957, 7936..7959, 7958..8005, 7990..8070, 8001..8063, 8117..8149, 8118..8150, 15809..15895		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o12.tm	Method	TBLASTX:Maize
Start	8114	End	8437
GI	none	Score	352

Exons 8114..8362, 8115..8363, 8122..8433, 8125..8418, 8369..8437

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
Gene No. 56368 Strand -  
Start 17779 End 20968  
Name OJ000150\_25.0124.C49.o10.tc Method TBLASTX:Cress  
Start 8153 End 9386  
GI none Score 49  
Exons 8153..8194, 8161..8181, 8213..8275, 8231..8275, 8268..8357,  
8269..8358, 8272..8364, 8485..8511, 8507..8551, 8660..8722,  
8833..8874, 8842..8886, 8844..8891, 8871..8987, 8963..9205,  
8970..9341, 9012..9386, 9013..9369

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
Gene No. 56368 Strand -  
Start 17779 End 20968  
Name OJ000150\_25.0124.C49.o5.tw Method TBLASTX:Wheat  
Start 8237 End 8871  
GI none Score 202  
Exons 8237..8395, 8238..8387, 8239..8415, 8362..8448, 8363..8449,  
8372..8446, 8434..8547, 8443..8550, 8448..8555, 8557..8766,  
8565..8744, 8624..8794, 8634..8804, 8648..8794, 8824..8871,  
8838..8870

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
Gene No. 56368 Strand -  
Start 17779 End 20968  
Name OJ000150\_25.0124.C49.o13.tm Method TBLASTX:Maize  
Start 8478 End 8801  
GI none Score 59  
Exons 8478..8507, 8479..8514, 8479..8511, 8504..8545, 8504..8551,  
8508..8606, 8509..8766, 8509..8679, 8636..8794, 8637..8744,  
8640..8801, 8648..8782, 8734..8793

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
Gene No. 56368 Strand -  
Start 17779 End 20968  
Name OJ000150\_25.0124.C49.o3.tm Method TBLASTX:Maize  
Start 8949 End 10702  
GI none Score 258  
Exons 8949..9521, 8951..9169, 8964..9362, 8971..9519, 9414..9521,  
9474..9752, 9516..9755, 9523..9753, 9735..10193, 9747..10193,  
9766..10194, 10141..10254, 10185..10259, 10202..10258,  
10204..10308, 10273..10491, 10292..10606, 10301..10570,  
10308..10607, 10537..10611, 10543..10611, 10572..10661,  
10598..10657, 10600..10701, 10613..10702

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49  
Gene No. 56368 Strand -  
Start 17779 End 20968  
Name OJ000150\_25.0124.C49.o1.tw Method TBLASTX:Wheat  
Start 9423 End 10191  
GI none Score 464  
Exons 9423..9755, 9423..9752, 9733..9771, 9786..10184, 9792..10187,  
9793..10191

Seq. No. 27217 Seq. ID OJ000150\_25.0124.C49



Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o11.tc	Method	TBLASTX:Cress
Start	9617	End	10133
GI	none	Score	129
Exons	9617..9715, 9618..9728, 9619..9729, 9625..9729, 9632..9730, 9779..9886, 9801..10097, 9810..10133		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o13.ts	Method	TBLASTX:Soybean
Start	9808	End	10136
GI	none	Score	137
Exons	9808..10098, 9810..10136, 9822..10103		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o5.tc	Method	TBLASTX:Cress
Start	10475	End	11363
GI	none	Score	92
Exons	10475..10573, 10478..10567, 10713..10763, 10714..10764, 10714..10791, 10715..10771, 10765..10794, 10765..10794, 10851..11018, 10852..11019, 10853..11020, 10853..11023, 10908..11024, 11034..11282, 11038..11277, 11046..11363, 11215..11283		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o4.tm	Method	TBLASTX:Maize
Start	10884	End	11713
GI	none	Score	1254
Exons	10884..11705, 10885..11706, 10908..11708, 11215..11709, 11342..11713		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o7.tw	Method	TBLASTX:Wheat
Start	11025	End	11331
GI	none	Score	448
Exons	11025..11330, 11025..11330, 11215..11331		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o1.tc	Method	TBLASTX:Cress
Start	11619	End	12836
GI	none	Score	251
Exons	11619..11792, 11619..11813, 11695..11826, 11813..11929, 11814..11933, 11937..12146, 11939..12652, 11942..12652, 12639..12737, 12649..12744, 12657..12743, 12671..12745, 12746..12826, 12750..12836, 12751..12834		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
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Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o5.tm	Method	TBLASTX:Maize
Start	11937	End	12714
GI	none	Score	304
Exons	11937..12146, 11939..12187, 11942..12187, 12016..12189, 12123..12188, 12182..12712, 12190..12714, 12191..12712, 12382..12714		
Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o6.ts	Method	TBLASTX:Soybean
Start	12069	End	12646
GI	none	Score	107
Exons	12069..12146, 12071..12646, 12074..12640		
Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o2.tw	Method	TBLASTX:Wheat
Start	12308	End	12684
GI	none	Score	598
Exons	12308..12682, 12308..12682, 12309..12683, 12382..12684		
Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o14.tw	Method	TBLASTX:Wheat
Start	12685	End	12912
GI	none	Score	104
Exons	12685..12744, 12687..12743, 12751..12912, 12766..12912		
Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o14.tc	Method	TBLASTX:Cress
Start	13066	End	13474
GI	none	Score	61
Exons	13066..13110, 13070..13105, 13097..13258, 13111..13260, 13112..13258, 13222..13260, 13245..13340, 13255..13341, 13255..13368, 13256..13342, 13343..13474, 13345..13425, 13352..13432		
Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o16.ts	Method	TBLASTX:Soybean
Start	13422	End	13601
GI	none	Score	52
Exons	13422..13451, 13424..13447, 13457..13597, 13461..13601		
Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o8.tw	Method	TBLASTX:Wheat
Start	14770	End	15255

GI	none	Score	92
Exons	14770..14847, 14770..14847, 14849..14905, 14849..14905, 14880..14960, 14885..14962, 14887..14964, 14896..14958, 14912..14977, 14922..14990, 14923..14964, 14950..14970, 14975..15025, 14975..15016, 14976..15068, 14976..15026, 15015..15254, 15015..15254, 15022..15255, 15022..15255		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o7.ts	Method	TBLASTX:Soybean
Start	15051	End	15544
GI	none	Score	684
Exons	15051..15542, 15061..15459, 15063..15542, 15209..15544, 15422..15544		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o12.ts	Method	TBLASTX:Soybean
Start	16750	End	16976
GI	none	Score	347
Exons	16750..16974, 16752..16976		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o8.ts	Method	TBLASTX:Soybean
Start	16977	End	17429
GI	none	Score	448
Exons	16977..17294, 16977..17294, 16978..17295, 16981..17295, 17282..17359, 17282..17356, 17299..17358, 17312..17428, 17314..17427, 17343..17429		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o10.tm	Method	TBLASTX:Maize
Start	17512	End	17866
GI	none	Score	564
Exons	17512..17829, 17513..17866, 17515..17865		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o5.ts	Method	TBLASTX:Soybean
Start	17542	End	18266
GI	none	Score	59
Exons	17542..17589, 17545..17586, 17585..17815, 17589..17834, 17590..17829, 17840..18148, 17841..18086, 17887..18087, 18084..18146, 18103..18147, 18139..18261, 18141..18266, 18141..18266		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o6.tc	Method	TBLASTX:Cress

Start	17554	End	18076
GI	none	Score	47
Exons	17554..17589, 17557..17586, 17585..17815, 17589..17834, 17590..17817, 17591..17842, 17839..17961, 17840..17953, 17841..17975, 17887..17955, 17953..17979, 17969..18076, 17971..18063		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o10.gp	Method	AAT/GAP
Start	17779	End	19748
GI	183_5.R1084	Score	2766
Exons	17779..18163, 18704..19748		
GI Descrip.	'133999/sp P05424 RR7_ORYSA 1.0e-48: CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 >gi_70904_pir_R3RZ7 ribosomal protein S7 - rice chloroplast >gi_12037_emb_CAA33942_(X15901) ribosomal protein S7 [Oryza sativa] >gi_12065_emb_CAA33919_(X15901) ribosomal protein S7 [Oryza sativa] >gi_226657_prf_1603356CH ribosomal protein S7 [Oryza sativa]'		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o1.tm	Method	TBLASTX:Maize
Start	17868	End	19746
GI	none	Score	756
Exons	17868..18338, 17868..19277, 17869..19305, 17887..19299, 18833..19306, 19214..19315, 19361..19444, 19362..19445, 19387..19446, 19439..19738, 19441..19746, 19444..19746		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o12.tw	Method	TBLASTX:Wheat
Start	17943	End	18162
GI	none	Score	99
Exons	17943..18053, 17946..18026, 17947..18030, 18010..18141, 18012..18125, 18129..18161, 18130..18162		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o17.tc	Method	TBLASTX:Cress
Start	18123	End	18283
GI	none	Score	194
Exons	18123..18278, 18134..18244, 18136..18279, 18141..18278, 18142..18282, 18143..18283		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o10.ts	Method	TBLASTX:Soybean
Start	18268	End	18670
GI	none	Score	178
Exons	18268..18390, 18269..18391, 18403..18516, 18403..18516, 18486..18668, 18489..18668, 18515..18670, 18517..18669		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o4.tw	Method	TBLASTX:Wheat
Start	18538	End	18948
GI	none	Score	42
Exons	18538..18597, 18589..18948, 18604..18945		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o4.tc	Method	TBLASTX:Cress
Start	18558	End	19306
GI	none	Score	709
Exons	18558..19028, 18558..19079, 18559..19035, 18559..19080, 19030..19146, 19034..19147, 19035..19061, 19038..19154, 19039..19155, 19091..19159, 19123..19197, 19161..19208, 19198..19272, 19214..19282, 19224..19268, 19254..19298, 19258..19299, 19264..19305, 19286..19306		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o11.ts	Method	TBLASTX:Soybean
Start	18828	End	19941
GI	none	Score	249
Exons	18828..19025, 18828..19028, 18829..19035, 18829..19029, 19012..19134, 19044..19139, 19045..19134, 19091..19141, 19098..19145, 19161..19196, 19165..19197, 19194..19238, 19197..19238, 19204..19239, 19227..19289, 19362..19427, 19364..19429, 19422..19448, 19423..19449, 19456..19560, 19483..19560, 19568..19660, 19587..19643, 19675..19713, 19774..19932, 19775..19930, 19776..19940, 19801..19941		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o18.tc	Method	TBLASTX:Cress
Start	19366	End	19587
GI	none	Score	40
Exons	19366..19401, 19391..19432, 19403..19435, 19425..19562, 19426..19569, 19427..19558, 19428..19559, 19564..19587		

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o3.tc	Method	TBLASTX:Cress
Start	19588	End	20968
GI	none	Score	110
Exons	19588..19683, 19588..19674, 19681..19707, 19681..19707, 19683..19712, 19774..19920, 19781..19912, 19815..19913, 19877..19948, 19967..20044, 19968..20048, 19969..20049, 20041..20112, 20044..20112, 20045..20113, 20068..20175, 20082..20150, 20114..20176, 20172..20303, 20192..20308, 20194..20301, 20198..20356, 20248..20355, 20316..20360, 20375..20551, 20376..20558, 20459..20560, 20461..20559,		

20585..20644, 20587..20646, 20598..20651, 20653..20769,  
 20655..20771, 20739..20864, 20748..20855, 20767..20862,  
 20777..20869, 20863..20889, 20863..20889, 20867..20902,  
 20891..20968, 20893..20967

Seq. No.	27217	Seq. ID	OJ000150_25.0124.C49
Gene No.	56368	Strand	-
Start	17779	End	20968
Name	OJ000150_25.0124.C49.o11.tw	Method	TBLASTX:Wheat
Start	20673	End	20968
GI	none	Score	76
Exons	20673..20768, 20673..20750, 20739..20810, 20748..20810, 20767..20811, 20767..20811, 20780..20821, 20784..20870, 20806..20871, 20857..20934, 20874..20930, 20875..20931, 20933..20968, 20935..20967		

Seq. No.	27218	Seq. ID	OJ000150_25.0124.C50
Gene No.	56369	Strand	-
Start	1	End	141
Name	OJ000150_25.0124.C50.o1.gp	Method	AAT/GAP
Start	1	End	141
GI	LIB3432-043-P1-K1-H9	Score	227
Exons	1..141		

GI Descrip. '131251/sp|P12094|PSBA ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN  
 (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1)  
 >gi\_72661\_pir\_FMRZ32 photosystem II protein D1 precursor - rice  
 chloroplast >gi\_11958\_emb\_CAA34007\_(X15901) PSII 32kDa protein  
 [Oryza sativa] >gi\_343212(M36191)\_Q-B protein (psbA) [Oryza  
 sativa] >gi\_226249\_prf\_1503143A psbA gene [Oryza sativa]  
 >gi\_226406\_prf\_15'

Seq. No.	27218	Seq. ID	OJ000150_25.0124.C50
Gene No.	56369	Strand	-
Start	1	End	141
Name	OJ000150_25.0124.C50.o1.tm	Method	TBLASTX:Maize
Start	1	End	141
GI	none	Score	117
Exons	1..90, 1..93, 2..91, 61..141, 75..140, 76..141		

Seq. No.	27218	Seq. ID	OJ000150_25.0124.C50
Gene No.	56369	Strand	-
Start	1	End	141
Name	OJ000150_25.0124.C50.o1.tw	Method	TBLASTX:Wheat
Start	1	End	141
GI	none	Score	164
Exons	1..141, 2..139, 3..140, 76..141		

Seq. No.	27219	Seq. ID	OJ000150_25.0124.C52
Gene No.	56370	Strand	-
Start	67	End	519
Name	OJ000150_25.0124.C52.o1.ts	Method	TBLASTX:Soybean
Start	67	End	519
GI	none	Score	656
Exons	67..324, 68..517, 68..517, 184..519, 397..519		

Seq. No.	27219	Seq. ID	OJ000150_25.0124.C52
Gene No.	56370	Strand	-

Start	67	End	519
Name	OJ000150_25.0124.C52.o1.tw	Method	TBLASTX:Wheat
Start	67	End	231
GI	none	Score	122
Exons	67..132, 71..229, 72..230, 72..230, 184..231		

Seq. No.	27220	Seq. ID	OJ000150_25.0124.C55
Gene No.	56371	Strand	+
Start	381	End	441
Name	OJ000150_25.0124.C55.o1.tc	Method	TBLASTX:Cress
Start	80	End	441
GI	none	Score	91
Exons	80..160, 81..161, 85..162, 86..163, 209..355, 216..314, 217..348, 421..441, 422..439		

Seq. No.	27220	Seq. ID	OJ000150_25.0124.C55
Gene No.	56371	Strand	+
Start	381	End	441
Name	OJ000150_25.0124.C55.o1.gp	Method	AAT/GAP
Start	381	End	441
GI	183_5.R1084	Score	90
Exons	381..441		

GI Descrip. '133999/sp|P05424|RR7\_ORYSA 1.0e-48 CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 >gi\_70904\_pir\_R3RZ7 ribosomal protein S7 - rice chloroplast >gi\_12037\_emb\_CAA33942\_(X15901) ribosomal protein S7 [Oryza sativa] >gi\_12065\_emb\_CAA33919\_(X15901) ribosomal protein S7 [Oryza sativa] >gi\_226657\_prf\_1603356CH ribosomal protein S7 [Oryza sativa]'

Seq. No.	27221	Seq. ID	OJ000150_25.0124.C56
Gene No.	56372	Strand	+
Start	280	End	442
Name	OJ000150_25.0124.C56.o1.tm	Method	TBLASTX:Maize
Start	65	End	441
GI	none	Score	321
Exons	65..253, 65..247, 66..248, 256..282, 260..283, 284..322, 284..322, 286..324, 297..440, 307..441, 318..440		

Seq. No.	27221	Seq. ID	OJ000150_25.0124.C56
Gene No.	56372	Strand	+
Start	280	End	442
Name	OJ000150_25.0124.C56.o1.ts	Method	TBLASTX:Soybean
Start	65	End	442
GI	none	Score	82
Exons	65..136, 65..136, 287..442, 288..437		

Seq. No.	27221	Seq. ID	OJ000150_25.0124.C56
Gene No.	56372	Strand	+
Start	280	End	442
Name	OJ000150_25.0124.C56.o1.gp	Method	AAT/GAP
Start	280	End	442
GI	LIB3431-017-P1-K1-H4	Score	266
Exons	280..442		
GI Descrip.	'1173189/sp P12340 RR12_MAIZE 8.0e-18 CHLOROPLAST 30S RIBOSOMAL PROTEIN S12 >gi_2119091_pir_S58629 ribosomal protein S12 - maize chloroplast >gi_342619_(M17841) ribosomal protein S12 [Zea mays] >gi_1216141_emb_CAA60309_(X86563) ribosomal protein S12		

[Zea mays]

Seq. No.	27222	Seq. ID	OJ000150_25.0124.C57
Gene No.	56373	Strand	
Start	74	End	309
Name	OJ000150_25.0124.C57.o1.tm	Method	TBLASTX:Maize
Start	74	End	309
GI	none	Score	270
Exons	74..262, 86..262, 264..308, 265..306, 265..309		

Seq. No.	27223	Seq. ID	OJ000150_25.0124.C58
Gene No.	56374	Strand	
Start	1	End	418
Name	OJ000150_25.0124.C58.o1.tm	Method	TBLASTX:Maize
Start	1	End	399
GI	none	Score	710
Exons	1..399, 3..398, 64..399		

Seq. No.	27223	Seq. ID	OJ000150_25.0124.C58
Gene No.	56374	Strand	
Start	1	End	418
Name	OJ000150_25.0124.C58.o1.ts	Method	TBLASTX:Soybean
Start	2	End	266
GI	none	Score	258
Exons	2..259, 2..262, 3..266, 3..266		

Seq. No.	27223	Seq. ID	OJ000150_25.0124.C58
Gene No.	56374	Strand	
Start	1	End	418
Name	OJ000150_25.0124.C58.o3.tc	Method	TBLASTX:Cress
Start	2	End	158
GI	none	Score	190
Exons	2..157, 2..157, 3..158, 3..158		

Seq. No.	27223	Seq. ID	OJ000150_25.0124.C58
Gene No.	56374	Strand	
Start	1	End	418
Name	OJ000150_25.0124.C58.o2.tc	Method	TBLASTX:Cress
Start	159	End	418
GI	none	Score	397
Exons	159..416, 159..404, 191..418		

Seq. No.	27223	Seq. ID	OJ000150_25.0124.C58
Gene No.	56375	Strand	
Start	419	End	706
Name	OJ000150_25.0124.C58.o1.tc	Method	TBLASTX:Cress
Start	419	End	706
GI	none	Score	415
Exons	419..706, 420..704		

Seq. No.	27223	Seq. ID	OJ000150_25.0124.C58
Gene No.	56375	Strand	
Start	419	End	706
Name	OJ000150_25.0124.C58.o2.ts	Method	TBLASTX:Soybean
Start	427	End	659
GI	none	Score	324
Exons	427..651, 429..659, 431..658		



Seq. No. 27223  
 Gene No. 56375  
 Start 419  
 Name OJ000150\_25.0124.C58.o2.tm  
 Start 599  
 GI none  
 Exons 599..706, 601..705

Seq. ID OJ000150\_25.0124.C58  
 Strand  
 End 706  
 Method TBLASTX:Maize  
 End 706  
 Score 152

Seq. No. 27224  
 Gene No. 56376  
 Start 1  
 Name OJ000150\_25.0124.C61.o1.gp  
 Start 1  
 GI 306\_9.R1084  
 Exons 1..193

Seq. ID OJ000150\_25.0124.C61  
 Strand -  
 End 193  
 Method AAT/GAP  
 End 193  
 Score 365

GI Descrip. '287391/dbj|D13111|RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'

Seq. No. 27224  
 Gene No. 56376  
 Start 1  
 Name OJ000150\_25.0124.C61.o1.tc  
 Start 10  
 GI none  
 Exons 10..123, 11..124, 12..137, 126..191, 126..191, 127..192, 134..193

Seq. ID OJ000150\_25.0124.C61  
 Strand -  
 End 193  
 Method TBLASTX:Cress  
 End 193  
 Score 152

Seq. No. 27225  
 Gene No. 56377  
 Start 134  
 Name OJ000150\_24.0124.C1.o1.gp  
 Start 134  
 GI none  
 Exons 134..266, 338..681

Seq. ID OJ000150\_24.0124.C1  
 Strand +  
 End 761  
 Method AAT/GAP  
 End 681  
 Score 896

Seq. No. 27225  
 Gene No. 56377  
 Start 134  
 Name OJ000150\_24.0124.C1.o1.gs  
 Start 176  
 GI none  
 Exons 176..266, 679..761

Seq. ID OJ000150\_24.0124.C1  
 Strand +  
 End 761  
 Method GENSCAN  
 End 761  
 Score .96

Seq. No. 27225  
 Gene No. 56378  
 Start 1996  
 Name OJ000150\_24.0124.C1.o2.gs  
 Start 1996  
 GI none  
 Exons 1996..2067, 2545..2626, 5685..5953

Seq. ID OJ000150\_24.0124.C1  
 Strand +  
 End 5953  
 Method GENSCAN  
 End 5953  
 Score .82

Seq. No. 27225  
 Gene No. 56379  
 Start 4849  
 Name OJ000150\_24.0124.C1.o1.np  
 Start 4849

Seq. ID OJ000150\_24.0124.C1  
 Strand -  
 End 5887  
 Method AAT/NAP  
 End 5845

GI 4467100 Score 293  
 Exons 4849..4932, 5664..5845  
 GI Descrip. (AL035538) MADS-box protein AGL17-like protein [Arabidopsis thaliana]

Seq. No. 27225 Seq. ID OJ000150\_24.0124.C1  
 Gene No. 56379 Strand -  
 Start 4849 End 5887  
 Name OJ000150\_24.0124.C1.ol.tc Method TBLASTX:Cress  
 Start 4854 End 5887  
 GI none Score 168  
 Exons 4854..4934, 5657..5857, 5667..5846, 5732..5887

Seq. No. 27225 Seq. ID OJ000150\_24.0124.C1  
 Gene No. 56379 Strand -  
 Start 4849 End 5887  
 Name OJ000150\_24.0124.C1.ol.tm Method TBLASTX:Maize  
 Start 4863 End 5848  
 GI none Score 81  
 Exons 4863..4934, 4876..4935, 5664..5846, 5666..5848, 5738..5848

Seq. No. 27225 Seq. ID OJ000150\_24.0124.C1  
 Gene No. 56379 Strand -  
 Start 4849 End 5887  
 Name OJ000150\_24.0124.C1.ol.tw Method TBLASTX:Wheat  
 Start 5651 End 5855  
 GI none Score 131  
 Exons 5651..5845, 5679..5846, 5732..5851, 5745..5855

Seq. No. 27225 Seq. ID OJ000150\_24.0124.C1  
 Gene No. 56379 Strand -  
 Start 4849 End 5887  
 Name OJ000150\_24.0124.C1.ol.ts Method TBLASTX:Soybean  
 Start 5663 End 5846  
 GI none Score 174  
 Exons 5663..5845, 5664..5846

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
 Gene No. 56380 Strand +  
 Start 13549 End 14679  
 Name OJ000150\_24.0124.C2.o5.gs Method GENSCAN  
 Start 13549 End 14679  
 GI none Score .88  
 Exons 13549..13729, 13967..14031, 14560..14679

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
 Gene No. 56381 Strand +  
 Start 17092 End 17635  
 Name OJ000150\_24.0124.C2.o6.gs Method GENSCAN  
 Start 17092 End 17635  
 GI none Score .81  
 Exons 17092..17293, 17466..17635

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
 Gene No. 56382 Strand +  
 Start 18945 End 19681  
 Name OJ000150\_24.0124.C2.o4.gp Method AAT/GAP

Start	18945	End	19681
GI	101153_1.R1084	Score	408
Exons	18945..19053, 19432..19681		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56383	Strand	+
Start	26116	End	26552
Name	OJ000150_24.0124.C2.o6.gp	Method	AAT/GAP
Start	26116	End	26552
GI	13686_1.R1084	Score	847
Exons	26116..26552		
GI Descrip.	'1279640/emb CAA63101  8.0e-17 (X92204) NAM [Petunia x hybrida] >gi_6066595_emb_CAA63102.2_ (X92205) NAM [Petunia x hybrida]'		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56384	Strand	+
Start	27855	End	28557
Name	OJ000150_24.0124.C2.o8.gs	Method	GENSCAN
Start	27855	End	28557
GI	none	Score	.63
Exons	27855..28222, 28404..28557		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56385	Strand	+
Start	49599	End	50637
Name	OJ000150_24.0124.C2.o13.gs	Method	GENSCAN
Start	49599	End	50406
GI	none	Score	.46
Exons	49599..49727, 50188..50406		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56385	Strand	+
Start	49599	End	50637
Name	OJ000150_24.0124.C2.o11.gp	Method	AAT/GAP
Start	50115	End	50637
GI	none	Score	1012
Exons	50115..50637		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56386	Strand	+
Start	77804	End	79117
Name	OJ000150_24.0124.C2.o10.np	Method	AAT/NAP
Start	77804	End	79117
GI	5777617	Score	85
Exons	77804..77890, 79015..79117		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56387	Strand	+
Start	80115	End	81611
Name	OJ000150_24.0124.C2.o12.np	Method	AAT/NAP
Start	80115	End	81611
GI	5823579	Score	970
Exons	80115..81611		
GI Descrip.	(AJ132843) mitochondrial RNA helicase [Arabidopsis thaliana]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56388	Strand	+
Start	84675	End	87927
Name	OJ000150_24.0124.C2.o17.gp	Method	AAT/GAP
Start	84519	End	86846
GI	26430_1.R1084	Score	1083
Exons	84519..84797, 85946..86068, 86184..86234, 86422..86493, 86573..86686, 86778..86846		
GI Descrip.	'2253411 6.0e-28 (AF007219) PP2A inhibitor [Tetraodon fluviatilis]'		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56388	Strand	+
Start	84675	End	87927
Name	OJ000150_24.0124.C2.o17.gs	Method	GENSCAN
Start	84675	End	87912
GI	none	Score	.88
Exons	84675..84797, 85946..86068, 86184..86234, 86422..86493, 86573..86686, 86778..86839, 87214..87274, 87416..87472, 87562..87603, 87838..87912		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56388	Strand	+
Start	84675	End	87927
Name	OJ000150_24.0124.C2.o13.np	Method	AAT/NAP
Start	84681	End	87927
GI	6730705	Score	525
Exons	84681..84797, 85946..86068, 86184..86234, 86422..86493, 86573..86686, 86778..86839, 87214..87274, 87413..87487, 87838..87927		
GI Descrip.	(AC011809) Putative phosphatase 2A inhibitor [Arabidopsis thaliana]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56389	Strand	-
Start	2172	End	7115
Name	OJ000150_24.0124.C2.o2.np	Method	AAT/NAP
Start	2172	End	7115
GI	282964	Score	686
Exons	2172..2292, 5466..5612, 5649..5799, 6709..6838, 6983..7115		
GI Descrip.	transforming protein (myb) homolog (clone myb.Ph3) - garden petunia gi 20563 emb CAA78386  (Z13996) protein 1 [Petunia x hybrida]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56389	Strand	-
Start	2172	End	7115
Name	OJ000150_24.0124.C2.o1.gp	Method	AAT/GAP
Start	2456	End	4040
GI	3718_1.R1084	Score	1415
Exons	2456..2891, 3736..4040		
GI Descrip.	'1945280/emb Y11352 OSMYB1308 3.0e-11 O.sativa mRNA for myb factor, 1308 bp'		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56389	Strand	-

Start 2172  
 Name OJ000150\_24.0124.C2.o2.gs  
 Start 2610  
 GI none  
 Exons 2610..2891, 3736..4005

End 7115  
 Method GENSCAN  
 End 4005  
 Score .93

Seq. No. 27226  
 Gene No. 56389  
 Start 2172  
 Name OJ000150\_24.0124.C2.o1.np  
 Start 2613  
 GI 6136559  
 Exons 2613..2891, 3736..4005  
 GI Descrip. YCF65-LIKE PROTEIN PRECURSOR gi|2695931|emb|CAA10984| (AJ222779)  
 hypothetical protein [Hordeum vulgare]

Seq. ID OJ000150\_24.0124.C2  
 Strand -  
 End 7115  
 Method AAT/NAP  
 End 4005  
 Score 630

Seq. No. 27226  
 Gene No. 56389  
 Start 2172  
 Name OJ000150\_24.0124.C2.o3.gs  
 Start 5025  
 GI none  
 Exons 5025..5799, 6709..6838, 6983..7115

Seq. ID OJ000150\_24.0124.C2  
 Strand -  
 End 7115  
 Method GENSCAN  
 End 7115  
 Score 1

Seq. No. 27226  
 Gene No. 56390  
 Start 7033  
 Name OJ000150\_24.0124.C2.o2.gp  
 Start 7033  
 GI 2431127  
 Exons 7033..7381  
 GI Descrip. 1945280/emb|Y11352|OSMYB1308 3.0e-11 O.sativa mRNA for myb factor, 1308 bp

Seq. ID OJ000150\_24.0124.C2  
 Strand -  
 End 7381  
 Method AAT/GAP  
 End 7381  
 Score 631

Seq. No. 27226  
 Gene No. 56391  
 Start 8359  
 Name OJ000150\_24.0124.C2.o4.gs  
 Start 8359  
 GI none  
 Exons 8359..8600, 9042..9135, 9290..9415, 9480..9557

Seq. ID OJ000150\_24.0124.C2  
 Strand -  
 End 9557  
 Method GENSCAN  
 End 9557  
 Score .85

Seq. No. 27226  
 Gene No. 56392  
 Start 13159  
 Name OJ000150\_24.0124.C2.o3.gp  
 Start 13159  
 GI LIB3477-003-P1-K1-E9  
 Exons 13159..13247, 13546..13566  
 GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. ID OJ000150\_24.0124.C2  
 Strand -  
 End 13566  
 Method AAT/GAP  
 End 13566  
 Score 142

Seq. No. 27226  
 Gene No. 56393  
 Start 16707  
 Name OJ000150\_24.0124.C2.o3.np

Seq. ID OJ000150\_24.0124.C2  
 Strand -  
 End 21762  
 Method AAT/NAP

Start	16707	End	21762
GI	6907086	Score	1782
Exons	16707..17057, 17159..17240, 17456..17673, 20981..21762		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56393	Strand	-
Start	16707	End	21762
Name	OJ000150_24.0124.C2.o5.gp	Method	AAT/GAP
Start	20656	End	20966
GI	61605_3.R1084	Score	434
Exons	20656..20966		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56394	Strand	-
Start	33815	End	36830
Name	OJ000150_24.0124.C2.o4.np	Method	AAT/NAP
Start	33815	End	36371
GI	6223650	Score	513
Exons	33815..33859, 35547..35621, 35753..36038, 36173..36371		
GI Descrip.	(AC011698) NAM-like protein (no apical meristem) [Arabidopsis thaliana]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56394	Strand	-
Start	33815	End	36830
Name	OJ000150_24.0124.C2.o7.gp	Method	AAT/GAP
Start	34830	End	35179
GI	3768510	Score	657
Exons	34830..35179		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56394	Strand	-
Start	33815	End	36830
Name	OJ000150_24.0124.C2.o10.gs	Method	GENSCAN
Start	35061	End	36347
GI	none	Score	.88
Exons	35061..35621, 35743..36038, 36173..36347		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56394	Strand	-
Start	33815	End	36830
Name	OJ000150_24.0124.C2.o8.gp	Method	AAT/GAP
Start	35977	End	36830
GI	699894	Score	611
Exons	35977..36038, 36173..36403, 36788..36830		
GI Descrip.	1279640/emb CAA63101  8.0e-17 (X92204) NAM [Petunia x hybrida] >gi_6066595_emb_CAA63102.2_ (X92205) NAM [Petunia x hybrida]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56395	Strand	-
Start	37738	End	41752
Name	OJ000150_24.0124.C2.o11.gs	Method	GENSCAN
Start	37738	End	41752
GI	none	Score	.61

Exons 37738..37782, 38092..38220, 38920..39047, 39406..39476,  
40127..40412, 40552..40595, 41679..41752

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56396	Strand	-
Start	43310	End	49018
Name	OJ000150_24.0124.C2.o12.gs	Method	GENSCAN
Start	43310	End	48876
GI	none	Score	.78
Exons	43310..43882, 44672..44742, 47043..47152, 47308..47419, 47574..47632, 47977..48065, 48113..48274, 48383..48563, 48638..48876		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56396	Strand	-
Start	43310	End	49018
Name	OJ000150_24.0124.C2.o5.np	Method	AAT/NAP
Start	43313	End	43827
GI	6138864	Score	383
Exons	43313..43827		
GI Descrip.	(AL132674) molybdenum cofactor biosynthesis protein [Streptomyces coelicolor A3(2)]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56396	Strand	-
Start	43310	End	49018
Name	OJ000150_24.0124.C2.o9.gp	Method	AAT/GAP
Start	47261	End	47651
GI	none	Score	688
Exons	47261..47651		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56396	Strand	-
Start	43310	End	49018
Name	OJ000150_24.0124.C2.o6.np	Method	AAT/NAP
Start	48062	End	48929
GI	5080791	Score	394
Exons	48062..48274, 48383..48506, 48638..48929		
GI Descrip.	(AC007576) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56396	Strand	-
Start	43310	End	49018
Name	OJ000150_24.0124.C2.o10.gp	Method	AAT/GAP
Start	48810	End	49018
GI	568151	Score	406
Exons	48810..49018		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56397	Strand	-
Start	51421	End	63596
Name	OJ000150_24.0124.C2.o7.np	Method	AAT/NAP
Start	51418	End	55040
GI	6598488	Score	761
Exons	51418..51699, 51755..51933, 52539..53223, 54850..55040		
GI Descrip.	(AC005770) unknown protein [Arabidopsis thaliana]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56397	Strand	-
Start	51421	End	63596
Name	OJ000150_24.0124.C2.o14.gs	Method	GENSCAN
Start	51421	End	61553
GI	none	Score	.52
Exons	51421..51933, 52539..53146, 53187..53485, 53601..53729, 54324..54457, 55048..55184, 55413..55621, 57746..57828, 59117..59613, 60695..61393, 61502..61553		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56397	Strand	-
Start	51421	End	63596
Name	OJ000150_24.0124.C2.o12.gp	Method	AAT/GAP
Start	51745	End	52671
GI	LIB3433-005-Q6-K1-E11	Score	554
Exons	51745..51933, 52539..52671		
GI Descrip.	'3928097 6.0e-19 (AC005770) unknown protein, 5'' partial [Arabidopsis thaliana]'		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56397	Strand	-
Start	51421	End	63596
Name	OJ000150_24.0124.C2.o8.np	Method	AAT/NAP
Start	59111	End	63596
GI	6598488	Score	712
Exons	59111..59384, 59453..59589, 60734..61393, 63572..63596		
GI Descrip.	(AC005770) unknown protein [Arabidopsis thaliana]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56398	Strand	-
Start	66377	End	76433
Name	OJ000150_24.0124.C2.o15.gs	Method	GENSCAN
Start	66377	End	76433
GI	none	Score	.6
Exons	66377..66405, 68455..68552, 68931..69232, 70918..71013, 71249..71353, 71427..71534, 71610..71696, 72236..72315, 72867..72934, 73538..73755, 74542..74608, 76297..76433		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56398	Strand	-
Start	66377	End	76433
Name	OJ000150_24.0124.C2.o13.gp	Method	AAT/GAP
Start	70964	End	71662
GI	LIB3431-037-P1-N1-G3	Score	950
Exons	70964..71305, 71427..71534, 71610..71662		
GI Descrip.	'2565436 2.0e-10 (AF028842) DegP protease precursor [Arabidopsis thaliana]'		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56398	Strand	-
Start	66377	End	76433
Name	OJ000150_24.0124.C2.o9.np	Method	AAT/NAP
Start	71174	End	75405
GI	2565436	Score	456
Exons	71174..71299, 71421..71548, 71627..71696, 72236..72315, 72867..72934, 73538..73755, 74542..74637, 74940..75014,		



75320..75405  
 GI Descrip. (AF028842) DegP protease precursor [Arabidopsis thaliana]

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56398	Strand	-
Start	66377	End	76433
Name	OJ000150_24.0124.C2.o14.gp	Method	AAT/GAP
Start	74557	End	75838
GI	LIB3431-037-P1-K1-G3	Score	776
Exons	74557..74608, 74739..74814, 74948..75014, 75320..75418, 75517..75599, 75748..75838		
GI Descrip.	'5042437/gb AC007789.1 AC007789 7.0e-35 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56399	Strand	-
Start	79298	End	80569
Name	OJ000150_24.0124.C2.o11.np	Method	AAT/NAP
Start	79298	End	80569
GI	5777617	Score	78
Exons	79298..79531, 80480..80569		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56399	Strand	-
Start	79298	End	80569
Name	OJ000150_24.0124.C2.o15.gp	Method	AAT/GAP
Start	79759	End	80065
GI	4968625	Score	585
Exons	79759..80065		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o2.tm	Method	TBLASTX:Maize
Start	2470	End	4011
GI	none	Score	65
Exons	2470..2532, 2477..2533, 2609..2704, 2610..2897, 2614..2907, 3932..4009, 3943..4011		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o3.tc	Method	TBLASTX:Cress
Start	2613	End	2895
GI	none	Score	222
Exons	2613..2855, 2620..2895		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o1.ts	Method	TBLASTX:Soybean
Start	2616	End	2896
GI	none	Score	274
Exons	2616..2885, 2617..2886, 2624..2896		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
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Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o6.tc	Method	TBLASTX:Cress
Start	5571	End	7140
GI	none	Score	145
Exons	5571..5591, 5670..5822, 5680..5811, 6697..6843, 6703..6831, 6708..6842, 6972..7115, 6982..7140		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o10.tm	Method	TBLASTX:Maize
Start	5572	End	5822
GI	none	Score	42
Exons	5572..5592, 5682..5822, 5683..5802		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o7.ts	Method	TBLASTX:Soybean
Start	5670	End	7137
GI	none	Score	151
Exons	5670..5822, 5680..5802, 6697..6843, 6703..6828, 6708..6842, 6972..7136, 6982..7137		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o2.tw	Method	TBLASTX:Wheat
Start	6706	End	7119
GI	none	Score	156
Exons	6706..6843, 6706..6840, 6708..6842, 6964..7116, 6972..7115, 7045..7119		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o7.tm	Method	TBLASTX:Maize
Start	6744	End	7119
GI	none	Score	108
Exons	6744..6869, 6748..6870, 6988..7119, 6990..7118		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o1.tc	Method	TBLASTX:Cress
Start	26160	End	26485
GI	none	Score	470
Exons	26160..26477, 26160..26450, 26164..26484, 26165..26485, 26318..26485		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o5.tm	Method	TBLASTX:Maize
Start	35780	End	36019
GI	none	Score	227

Exons 35780..36019, 35803..36012

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o3.ts	Method	TBLASTX:Soybean
Start	35785	End	36321
GI	none	Score	315
Exons	35785..36012, 35786..36034, 36168..36203, 36172..36192, 36261..36320, 36268..36321		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o4.tc	Method	TBLASTX:Cress
Start	35794	End	36347
GI	none	Score	260
Exons	35794..36012, 35804..36034, 36101..36169, 36168..36347		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o1.tw	Method	TBLASTX:Wheat
Start	35803	End	36013
GI	none	Score	165
Exons	35803..36012, 35810..36013		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o2.tc	Method	TBLASTX:Cress
Start	43310	End	43781
GI	none	Score	207
Exons	43310..43747, 43352..43777, 43365..43781		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o9.tm	Method	TBLASTX:Maize
Start	43605	End	43795
GI	none	Score	207
Exons	43605..43778, 43607..43780, 43607..43795		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o8.tm	Method	TBLASTX:Maize
Start	50242	End	50424
GI	none	Score	247
Exons	50242..50424, 50242..50292, 50253..50411		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o4.ts	Method	TBLASTX:Soybean
Start	51536	End	60845
GI	none	Score	79

Exons 51536..51682, 51544..51690, 51694..51933, 51722..51934,  
59201..59326, 59417..59587, 60777..60845

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
Gene No. 56400 Strand -  
Start 88171 End 89363  
Name OJ000150\_24.0124.C2.o7.tc Method TBLASTX:Cress  
Start 51694 End 61022  
GI none Score 90  
Exons 51694..51933, 51695..51934, 52515..52685, 59417..59602,  
60777..60899, 60891..61022

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
Gene No. 56400 Strand -  
Start 88171 End 89363  
Name OJ000150\_24.0124.C2.o3.tm Method TBLASTX:Maize  
Start 51751 End 61239  
GI none Score 55  
Exons 51751..51933, 52536..52685, 52582..52680, 52738..52992,  
52773..52991, 59462..59587, 60741..60899, 60784..60882,  
60891..61238, 60904..61239

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
Gene No. 56400 Strand -  
Start 88171 End 89363  
Name OJ000150\_24.0124.C2.o5.ts Method TBLASTX:Soybean  
Start 52818 End 61395  
GI none Score 168  
Exons 52818..53150, 52819..53148, 60906..61028, 61065..61394,  
61096..61395

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
Gene No. 56400 Strand -  
Start 88171 End 89363  
Name OJ000150\_24.0124.C2.o5.tc Method TBLASTX:Cress  
Start 71183 End 71700  
GI none Score 71  
Exons 71183..71305, 71424..71540, 71424..71546, 71425..71547,  
71607..71699, 71620..71700

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
Gene No. 56400 Strand -  
Start 88171 End 89363  
Name OJ000150\_24.0124.C2.o9.ts Method TBLASTX:Soybean  
Start 72233 End 73756  
GI none Score 45  
Exons 72233..72328, 72865..72936, 73540..73596, 73540..73572,  
73594..73755, 73607..73756

Seq. No. 27226 Seq. ID OJ000150\_24.0124.C2  
Gene No. 56400 Strand -  
Start 88171 End 89363  
Name OJ000150\_24.0124.C2.o4.tm Method TBLASTX:Maize  
Start 72865 End 74824  
GI none Score 96  
Exons 72865..72912, 72866..72937, 72868..72912, 72908..72934,  
73540..73755, 73557..73757, 73601..73756, 73620..73757,

74530..74613, 74532..74615, 74539..74613, 74540..74614,  
74541..74627, 74737..74793, 74738..74794, 74739..74798,  
74742..74798, 74784..74816, 74791..74817, 74792..74824

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o2.ts	Method	TBLASTX:Soybean
Start	79890	End	80317
GI	none	Score	62
Exons	79890..79964, 80046..80315, 80054..80158, 80180..80317		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o6.tm	Method	TBLASTX:Maize
Start	80046	End	80327
GI	none	Score	171
Exons	80046..80204, 80054..80245, 80126..80326, 80142..80327		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o8.ts	Method	TBLASTX:Soybean
Start	80433	End	80702
GI	none	Score	176
Exons	80433..80609, 80453..80578, 80628..80702		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o6.ts	Method	TBLASTX:Soybean
Start	80877	End	81133
GI	none	Score	286
Exons	80877..81131, 80881..81051, 80882..81133		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o1.tm	Method	TBLASTX:Maize
Start	81196	End	81687
GI	none	Score	613
Exons	81196..81546, 81198..81674, 81201..81581, 81202..81687		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o11.tm	Method	TBLASTX:Maize
Start	84672	End	87474
GI	none	Score	103
Exons	84672..84803, 85943..86068, 85943..86068, 85944..86069, 85945..86085, 86172..86237, 86184..86237, 86185..86244, 86353..86376, 86422..86463, 86455..86493, 86572..86685, 86576..86686, 86591..86686, 86595..86687, 87413..87472, 87413..87472, 87414..87473, 87415..87474		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
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Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o3.tw	Method	TBLASTX:Wheat
Start	84672	End	87472
GI	none	Score	99
Exons	84672..84803, 85943..86068, 85945..86085, 86172..86237, 86418..86492, 86419..86493, 86420..86491, 86422..86493, 86572..86688, 86576..86686, 86585..86695, 86795..86839, 87212..87277, 87413..87472, 87413..87472		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o8.tc	Method	TBLASTX:Cress
Start	84729	End	87472
GI	none	Score	86
Exons	84729..84809, 85934..86059, 85943..86068, 85948..86076, 86184..86237, 86422..86490, 86576..86683, 87413..87472		

Seq. No.	27226	Seq. ID	OJ000150_24.0124.C2
Gene No.	56400	Strand	-
Start	88171	End	89363
Name	OJ000150_24.0124.C2.o18.gs	Method	GENSCAN
Start	88171	End	89363
GI	none	Score	.52
Exons	88171..88185, 88284..88433, 89250..89363		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56401	Strand	+
Start	1	End	2193
Name	OJ000150_24.0124.C3.o1.np	Method	AAT/NAP
Start	1	End	2190
GI	6665548	Score	375
Exons	1..94, 226..363, 519..601, 1400..1476, 2046..2190		
GI Descrip.	(AC013289) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56401	Strand	+
Start	1	End	2193
Name	OJ000150_24.0124.C3.o1.gs	Method	GENSCAN
Start	59	End	2193
GI	none	Score	.92
Exons	59..94, 226..363, 515..601, 1400..1476, 2046..2193		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56402	Strand	+
Start	2133	End	2421
Name	OJ000150_24.0124.C3.o1.gp	Method	AAT/GAP
Start	2133	End	2421
GI	none	Score	530
Exons	2133..2421		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56403	Strand	+
Start	7706	End	11967
Name	OJ000150_24.0124.C3.o4.gs	Method	GENSCAN
Start	7706	End	11967

GI none Score .57  
Exons 7706..7851, 8010..8228, 8521..8673, 9012..9233, 9414..9449, 9497..9688, 9959..10082, 11716..11967

Seq. No. 27227 Seq. ID OJ000150\_24.0124.C3  
Gene No. 56404 Strand +  
Start 15566 End 15988  
Name OJ000150\_24.0124.C3.o6.gs Method GENSCAN  
Start 15566 End 15988  
GI none Score .77  
Exons 15566..15988

Seq. No. 27227 Seq. ID OJ000150\_24.0124.C3  
Gene No. 56405 Strand +  
Start 20846 End 27002  
Name OJ000150\_24.0124.C3.o8.gs Method GENSCAN  
Start 20846 End 26956  
GI none Score .93  
Exons 20846..21106, 21232..21286, 21374..21549, 21641..21841, 22270..22529, 22667..22944, 23030..23253, 23433..24258, 24411..24574, 25748..26956

Seq. No. 27227 Seq. ID OJ000150\_24.0124.C3  
Gene No. 56405 Strand +  
Start 20846 End 27002  
Name OJ000150\_24.0124.C3.o3.np Method AAT/NAP  
Start 20853 End 27002  
GI 419760 Score 3127  
Exons 20853..21115, 21232..21286, 21374..21549, 21641..21841, 22270..22529, 22628..22944, 23030..23253, 23433..24258, 24333..24574, 25748..27002

GI Descrip. P-glycoprotein atpgpl - Arabidopsis thaliana  
gi|3849833|emb|CAA43646| (X61370) P-glycoprotein [Arabidopsis thaliana] gi|4883607|gb|AAD31576.1|AC006922\_8 (AC006922)  
putative ABC transporter [Arabidopsis thaliana]

Seq. No. 27227 Seq. ID OJ000150\_24.0124.C3  
Gene No. 56405 Strand +  
Start 20846 End 27002  
Name OJ000150\_24.0124.C3.o5.gp Method AAT/GAP  
Start 24077 End 24519  
GI 61339\_1.R1084 Score 710  
Exons 24077..24258, 24333..24519

GI Descrip. '4204793 3.0e-28 (U52079) P-glycoprotein [Solanum tuberosum]'

Seq. No. 27227 Seq. ID OJ000150\_24.0124.C3  
Gene No. 56406 Strand +  
Start 29499 End 31205  
Name OJ000150\_24.0124.C3.o9.gs Method GENSCAN  
Start 29499 End 31205  
GI none Score 1  
Exons 29499..31205

Seq. No. 27227 Seq. ID OJ000150\_24.0124.C3  
Gene No. 56406 Strand +  
Start 29499 End 31205  
Name OJ000150\_24.0124.C3.o4.np Method AAT/NAP

Start	29502	End	31202
GI	2239262	Score	2412
Exons	29502..31202		
GI Descrip.	(Y13285) pectin methylesterase-like protein [Zea mays]		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56406	Strand	+
Start	29499	End	31205
Name	OJ000150_24.0124.C3.o6.gp	Method	AAT/GAP
Start	29504	End	30003
GI	uC-osflcyp052c05b1	Score	954
Exons	29504..30003		
GI Descrip.	'2239262/emb CAA73733  3.0e-22 (Y13285) pectin methylesterase-like protein [Zea mays]'		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56406	Strand	+
Start	29499	End	31205
Name	OJ000150_24.0124.C3.o7.gp	Method	AAT/GAP
Start	30535	End	30991
GI	40115_1.R1084	Score	855
Exons	30535..30991		
GI Descrip.	'2239262/emb CAA73733  7.0e-60 (Y13285) pectin methylesterase-like protein [Zea mays]'		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56407	Strand	+
Start	31151	End	31517
Name	OJ000150_24.0124.C3.o8.gp	Method	AAT/GAP
Start	31151	End	31517
GI	3761524	Score	692
Exons	31151..31517		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56408	Strand	-
Start	3242	End	4799
Name	OJ000150_24.0124.C3.o2.gp	Method	AAT/GAP
Start	2925	End	4799
GI	793_1.R1084	Score	2968
Exons	2925..3744, 3832..4384, 4484..4594, 4692..4799		
GI Descrip.	'120657/sp P09315 G3PA_MAIZE 0.0e+00 GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE A PRECURSOR, CHLOROPLAST >gi_66024_pir_DEZMG3 glyceraldehyde-3-phosphate dehydrogenase (NADP+) (phosphorylating) (EC 1.2.1.13) A precursor, chloroplast - maize >gi_168479 (M18976) glyceraldehyde-3-phosphate dehydrogenase [Zea mays] >gi_763035_emb_CAA33455_ (X15408) glyceraldehyde-3-phosphate dehydrogenase [Z'		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56408	Strand	-
Start	3242	End	4799
Name	OJ000150_24.0124.C3.o2.gs	Method	GENSCAN
Start	3242	End	4733
GI	none	Score	1
Exons	3242..3744, 3832..4384, 4484..4594, 4692..4733		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
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Gene No.	56408	Strand	-
Start	3242	End	4799
Name	OJ000150_24.0124.C3.o2.np	Method	AAT/NAP
Start	3245	End	4733
GI	120657	Score	1896
Exons	3245..3744, 3832..4384, 4484..4597, 4692..4733		
GI Descrip.	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE A, CHLOROPLAST PRECURSOR gi 66024 pir  DEZMG3 glyceraldehyde-3-phosphate dehydrogenase (NADP+) (phosphorylating) (EC 1.2.1.13) A precursor, chloroplast - maize gi 168479 (M18976) glyceraldehyde-3-phosphate dehydrogenase [Zea mays] gi 763035 emb CAA33455  (X15408) glyceraldehyde-3-phosphate dehydrogenase [Zea mays]		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56409	Strand	-
Start	12183	End	16712
Name	OJ000150_24.0124.C3.o1.ts	Method	TBLASTX:Soybean
Start	3239	End	4595
GI	none	Score	489
Exons	3239..3745, 3240..3746, 3828..4265, 3830..4264, 4265..4384, 4269..4385, 4482..4595		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56409	Strand	-
Start	12183	End	16712
Name	OJ000150_24.0124.C3.o1.tc	Method	TBLASTX:Cress
Start	3240	End	4631
GI	none	Score	483
Exons	3240..3746, 3242..3745, 3828..4265, 3830..4264, 4265..4384, 4269..4382, 4481..4528, 4485..4631		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56409	Strand	-
Start	12183	End	16712
Name	OJ000150_24.0124.C3.o3.tm	Method	TBLASTX:Maize
Start	3248	End	4378
GI	none	Score	300
Exons	3248..3490, 3249..3491, 3453..3746, 3519..3650, 3536..3745, 3828..3911, 3830..3901, 3927..3959, 3957..4271, 3959..4270, 4265..4378, 4269..4367		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56409	Strand	-
Start	12183	End	16712
Name	OJ000150_24.0124.C3.o3.tw	Method	TBLASTX:Wheat
Start	3255	End	3640
GI	none	Score	146
Exons	3255..3638, 3272..3640		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56409	Strand	-
Start	12183	End	16712
Name	OJ000150_24.0124.C3.o7.tm	Method	TBLASTX:Maize
Start	4481	End	16712
GI	none	Score	176
Exons	4481..4534, 4482..4598, 4693..4746, 4693..4737, 16653..16712		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56409	Strand	-
Start	12183	End	16712
Name	OJ000150_24.0124.C3.o3.gp	Method	AAT/GAP
Start	12048	End	12554
GI	1560_1.R1084	Score	769
Exons	12048..12384, 12475..12554		
GI Descrip.	'5777612/emb AJ245900.1 OSA245900 2.0e-09 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56409	Strand	-
Start	12183	End	16712
Name	OJ000150_24.0124.C3.o5.gs	Method	GENSCAN
Start	12183	End	14522
GI	none	Score	.55
Exons	12183..12384, 12759..12863, 14191..14522		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56409	Strand	-
Start	12183	End	16712
Name	OJ000150_24.0124.C3.o4.gp	Method	AAT/GAP
Start	12563	End	12914
GI	none	Score	613
Exons	12563..12914		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	-
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o2.tc	Method	TBLASTX:Cress
Start	20900	End	26941
GI	none	Score	89
Exons	20900..21070, 21229..21285, 21373..21567, 21373..21561, 21468..21563, 21622..21843, 21632..21844, 22254..22529, 22264..22530, 22629..22946, 22752..22955, 22760..22945, 22760..22843, 23016..23270, 23026..23271, 23026..23277, 23028..23258, 23053..23271, 23421..23714, 23421..23723, 23468..23701, 23471..23722, 23726..23764, 24090..24251, 24317..24574, 24325..24546, 24371..24562, 25750..26124, 25757..26176, 25763..26941, 26195..26941, 26212..26922, 26212..26532, 26219..26539, 26582..26674, 26584..26898		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	-
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o6.ts	Method	TBLASTX:Soybean
Start	21217	End	21564
GI	none	Score	47
Exons	21217..21282, 21370..21564, 21370..21561, 21445..21471, 21484..21549		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	-
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o7.ts	Method	TBLASTX:Soybean
Start	21632	End	21841

GI	none	Score	194
Exons	21632..21841, 21643..21840		
Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o5.tm	Method	TBLASTX:Maize
Start	21662	End	25990
GI	none	Score	82
Exons	21662..21850, 24441..24518, 24451..24519, 24455..24574, 24457..24573, 25747..25809, 25747..25989, 25754..25990		
Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o6.tm	Method	TBLASTX:Maize
Start	22309	End	22433
GI	none	Score	214
Exons	22309..22431, 22309..22431, 22314..22433		
Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o2.ts	Method	TBLASTX:Soybean
Start	22692	End	26658
GI	none	Score	102
Exons	22692..22844, 22895..22954, 22914..22955, 23016..23270, 23026..23160, 25825..26130, 25826..26131, 26132..26647, 26153..26515, 26200..26658		
Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o2.tm	Method	TBLASTX:Maize
Start	22701	End	26931
GI	none	Score	139
Exons	22701..22949, 22766..22843, 22895..22936, 23016..23264, 23029..23160, 23427..23717, 23433..23711, 23468..23713, 25991..26929, 25996..26148, 26078..26674, 26215..26931		
Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o2.tw	Method	TBLASTX:Wheat
Start	23427	End	26866
GI	none	Score	318
Exons	23427..23678, 23468..23674, 26615..26866, 26623..26865		
Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o4.ts	Method	TBLASTX:Soybean
Start	23435	End	26905
GI	none	Score	76
Exons	23435..23587, 23439..23717, 23468..23716, 26660..26905		
Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3

Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o4.tm	Method	TBLASTX:Maize
Start	23717	End	24424
GI	none	Score	90
Exons	23717..24262, 23718..23786, 23795..24160, 23892..24269, 24323..24424, 24325..24423		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o4.tc	Method	TBLASTX:Cress
Start	23951	End	24089
GI	none	Score	200
Exons	23951..24088, 23952..24089		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56410	Strand	
Start	20900	End	26941
Name	OJ000150_24.0124.C3.o5.ts	Method	TBLASTX:Soybean
Start	24234	End	25825
GI	none	Score	40
Exons	24234..24269, 24323..24574, 24331..24570, 25747..25824, 25754..25825		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56411	Strand	
Start	29577	End	31223
Name	OJ000150_24.0124.C3.o1.tm	Method	TBLASTX:Maize
Start	29577	End	31223
GI	none	Score	820
Exons	29577..30149, 29582..30145, 30159..30257, 30191..30241, 30246..30377, 30248..31210, 30249..31211, 31143..31223		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56411	Strand	
Start	29577	End	31223
Name	OJ000150_24.0124.C3.o3.ts	Method	TBLASTX:Soybean
Start	29922	End	31196
GI	none	Score	65
Exons	29922..30023, 30191..31096, 30192..31115, 31122..31196		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56411	Strand	
Start	29577	End	31223
Name	OJ000150_24.0124.C3.o3.tc	Method	TBLASTX:Cress
Start	30192	End	31195
GI	none	Score	51
Exons	30192..30233, 30264..31103, 30266..30850, 30893..31003, 31049..31102, 31113..31193, 31127..31195		

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56411	Strand	
Start	29577	End	31223
Name	OJ000150_24.0124.C3.o4.tw	Method	TBLASTX:Wheat
Start	30258	End	30539
GI	none	Score	205

Exons 30258..30539, 30258..30374, 30260..30526

Seq. No.	27227	Seq. ID	OJ000150_24.0124.C3
Gene No.	56411	Strand	
Start	29577	End	31223
Name	OJ000150_24.0124.C3.ol.tw	Method	TBLASTX:Wheat
Start	30542	End	30979
GI	none	Score	566
Exons	30542..30979, 30546..30977, 30794..30979		

Seq. No.	27228	Seq. ID	OJ000150_24.0124.C5
Gene No.	56412	Strand	-
Start	177	End	464
Name	OJ000150_24.0124.C5.ol.gs	Method	GENSCAN
Start	177	End	464
GI	none	Score	.74
Exons	177..338, 420..464		

Seq. No.	27229	Seq. ID	OJ000150_24.0124.C7
Gene No.	56413	Strand	-
Start	1	End	710
Name	OJ000150_24.0124.C7.ol.gp	Method	AAT/GAP
Start	1	End	710
GI	793_1.R1084	Score	1170
Exons	1..366, 454..710		
GI Descrip.	'120657/sp P09315 G3PA_MAIZE 0.0e+00 GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE A PRECURSOR, CHLOROPLAST >gi_66024_pir_DEZMG3 glyceraldehyde-3-phosphate dehydrogenase (NADP+) (phosphorylating) (EC 1.2.1.13) A precursor, chloroplast - maize >gi_168479 (M18976) glyceraldehyde-3-phosphate dehydrogenase [Zea mays] >gi_763035_emb_CAA33455_ (X15408) glyceraldehyde-3-phosphate dehydrogenase [Z'		

Seq. No.	27229	Seq. ID	OJ000150_24.0124.C7
Gene No.	56413	Strand	-
Start	1	End	710
Name	OJ000150_24.0124.C7.ol.np	Method	AAT/NAP
Start	1	End	710
GI	22240	Score	949
Exons	1..366, 454..710		
GI Descrip.	(X07157) GADPH (383 AA) [Zea mays]		

Seq. No.	27229	Seq. ID	OJ000150_24.0124.C7
Gene No.	56413	Strand	-
Start	1	End	710
Name	OJ000150_24.0124.C7.ol.tm	Method	TBLASTX:Maize
Start	2	End	704
GI	none	Score	141
Exons	2..112, 3..113, 75..368, 141..272, 158..367, 450..533, 452..523, 539..613, 549..581, 579..659, 581..655, 591..647, 657..704, 660..701		

Seq. No.	27229	Seq. ID	OJ000150_24.0124.C7
Gene No.	56413	Strand	-
Start	1	End	710
Name	OJ000150_24.0124.C7.ol.ts	Method	TBLASTX:Soybean
Start	2	End	704

GI	none	Score	62
Exons	2..91, 2..367, 3..368, 327..368, 450..656, 452..655, 657..704, 660..698		

Seq. No.	27229	Seq. ID	OJ000150_24.0124.C7
Gene No.	56413	Strand	-
Start	1	End	710
Name	OJ000150_24.0124.C7.ol.tc	Method	TBLASTX:Cress
Start	5	End	698
GI	none	Score	316
Exons	5..367, 6..368, 450..656, 452..655, 660..698		

Seq. No.	27229	Seq. ID	OJ000150_24.0124.C7
Gene No.	56413	Strand	-
Start	1	End	710
Name	OJ000150_24.0124.C7.ol.gs	Method	GENSCAN
Start	15	End	641
GI	none	Score	.99
Exons	15..366, 454..641		

Seq. No.	27230	Seq. ID	OJ000150_24.0124.C8
Gene No.	56414	Strand	+
Start	1	End	215
Name	OJ000150_24.0124.C8.ol.gp	Method	AAT/GAP
Start	1	End	215
GI	793_1.R1084	Score	314
Exons	1..215		
GI Descrip.	'120657/sp P09315 G3PA MAIZE 0.0e+00 GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE A PRECURSOR, CHLOROPLAST >gi_66024_pir_DEZMG3 glyceraldehyde-3-phosphate dehydrogenase (NADP+) (phosphorylating) (EC 1.2.1.13) A precursor, chloroplast - maize >gi_168479 (M18976) glyceraldehyde-3-phosphate dehydrogenase [Zea mays] >gi_763035_emb_CAA33455_ (X15408) glyceraldehyde-3-phosphate dehydrogenase [Z'		

Seq. No.	27230	Seq. ID	OJ000150_24.0124.C8
Gene No.	56414	Strand	+
Start	1	End	215
Name	OJ000150_24.0124.C8.ol.np	Method	AAT/NAP
Start	1	End	215
GI	2506443	Score	247
Exons	1..215		
GI Descrip.	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE A, CHLOROPLAST PRECURSOR gi 2117520 pir  JQ1285 glyceraldehyde-3-phosphate dehydrogenase (NADP+) (phosphorylating) (EC 1.2.1.13) A precursor, chloroplast - Arabidopsis thaliana gi 166704 (M64117) glyceraldehyde 3-phosphate dehydrogenase [Arabidopsis thaliana] gi 1402885 emb CAA66816  (X98130) glyceraldehyde-3-phosphate dehyd		

Seq. No.	27230	Seq. ID	OJ000150_24.0124.C8
Gene No.	56414	Strand	+
Start	1	End	215
Name	OJ000150_24.0124.C8.ol.tc	Method	TBLASTX:Cress
Start	49	End	214
GI	none	Score	174
Exons	49..213, 50..214		

Seq. No. 27230  
 Gene No. 56414  
 Start 1  
 Name OJ000150\_24.0124.C8.o1.gs  
 Start 68  
 GI none  
 Exons 68..140

Seq. ID OJ000150\_24.0124.C8  
 Strand +  
 End 215  
 Method GENSCAN  
 End 140  
 Score .4

Seq. No. 27231  
 Gene No. 56415  
 Start 77  
 Name OJ000150\_27.0124.C2.o1.gs  
 Start 77  
 GI none  
 Exons 77..192, 911..1034

Seq. ID OJ000150\_27.0124.C2  
 Strand +  
 End 1034  
 Method GENSCAN  
 End 1034  
 Score .55

Seq. No. 27231  
 Gene No. 56416  
 Start 905  
 Name OJ000150\_27.0124.C2.o1.gp  
 Start 905  
 GI none  
 Exons 905..1052

Seq. ID OJ000150\_27.0124.C2  
 Strand -  
 End 1052  
 Method AAT/GAP  
 End 1052  
 Score 277

Seq. No. 27232  
 Gene No. 56417  
 Start 136  
 Name OJ000150\_27.0124.C3.o1.tc  
 Start 115  
 GI none  
 Exons 115..288, 158..277

Seq. ID OJ000150\_27.0124.C3  
 Strand -  
 End 595  
 Method TBLASTX:Cress  
 End 288  
 Score 89

Seq. No. 27232  
 Gene No. 56417  
 Start 136  
 Name OJ000150\_27.0124.C3.o1.np  
 Start 136  
 GI 4589956  
 Exons 136..276, 442..595  
 GI Descrip. (AC007169) putative endonuclease [Arabidopsis thaliana]

Seq. ID OJ000150\_27.0124.C3  
 Strand -  
 End 595  
 Method AAT/NAP  
 End 595  
 Score 217

Seq. No. 27233  
 Gene No. 56418  
 Start 74  
 Name OJ000150\_27.0124.C7.o1.gs  
 Start 74  
 GI none  
 Exons 74..520

Seq. ID OJ000150\_27.0124.C7  
 Strand +  
 End 520  
 Method GENSCAN  
 End 520  
 Score .57

Seq. No. 27234  
 Gene No. 56419  
 Start 40  
 Name OJ000150\_27.0124.C8.o1.tm  
 Start 40  
 GI none  
 Exons 40..87, 40..102, 159..236, 161..238, 331..411, 334..411

Seq. ID OJ000150\_27.0124.C8  
 Strand +  
 End 590  
 Method TBLASTX:Maize  
 End 411  
 Score 66

Seq. No.	27234	Seq. ID	OJ000150_27.0124.C8
Gene No.	56419	Strand	
Start	40	End	590
Name	OJ000150_27.0124.C8.o1.ts	Method	TBLASTX:Soybean
Start	43	End	590
GI	none	Score	39
Exons	43..102, 44..85, 158..235, 171..236, 337..411, 338..412, 509..589, 510..590		

Seq. No.	27235	Seq. ID	OJ000150_27.0124.C9
Gene No.	56420	Strand	+
Start	181	End	368
Name	OJ000150_27.0124.C9.o1.gp	Method	AAT/GAP
Start	181	End	368
GI	4878810	Score	350
Exons	181..368		

Seq. No.	27236	Seq. ID	OJ000150_27.0124.C16
Gene No.	56421	Strand	+
Start	1	End	352
Name	OJ000150_27.0124.C16.o1.gp	Method	AAT/GAP
Start	1	End	352
GI	uC-osflcyp110c07b1	Score	672
Exons	1..352		
GI Descrip.	'4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat.2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	27236	Seq. ID	OJ000150_27.0124.C16
Gene No.	56421	Strand	+
Start	1	End	352
Name	OJ000150_27.0124.C16.o1.np	Method	AAT/NAP
Start	1	End	352
GI	136140	Score	192
Exons	1..352		
GI Descrip.	PUTATIVE AC9 TRANSPOSASE gi 72973 pir  TQZMCA probable transposase - maize transposon Ac9		

Seq. No.	27236	Seq. ID	OJ000150_27.0124.C16
Gene No.	56421	Strand	+
Start	1	End	352
Name	OJ000150_27.0124.C16.o1.tm	Method	TBLASTX:Maize
Start	3	End	341
GI	none	Score	159
Exons	3..203, 50..196, 246..287, 249..341		

Seq. No.	27237	Seq. ID	OJ000150_27.0124.C19
Gene No.	56422	Strand	-
Start	1	End	283
Name	OJ000150_27.0124.C19.o1.gp	Method	AAT/GAP
Start	1	End	283
GI	28254_1.R1084	Score	339
Exons	1..55, 145..283		
GI Descrip.	'3874228/emb CAA90105.1  4.0e-20 (Z49909) cDNA EST CEMSF21F comes from this gene; cDNA EST EMBL:D73546 comes from this gene; cDNA EST EMBL:D73669 comes from this gene; cDNA EST EMBL:D70979		



comes from this gene; cDNA EST EMBL:D71075 comes from this gene;  
cDNA'

Seq. No.	27237	Seq. ID	OJ000150_27.0124.C19
Gene No.	56422	Strand	-
Start	1	End	283
Name	OJ000150_27.0124.C19.o1.tm	Method	TBLASTX:Maize
Start	1	End	280
GI	none	Score	73
Exons	1..60, 1..66, 2..61, 145..279, 146..280, 193..267		

Seq. No.	27237	Seq. ID	OJ000150_27.0124.C19
Gene No.	56422	Strand	-
Start	1	End	283
Name	OJ000150_27.0124.C19.o1.np	Method	AAT/NAP
Start	1	End	279
GI	6735330	Score	168
Exons	1..55, 157..279		
GI Descrip.	(AL137081) putative protein [Arabidopsis thaliana]		

Seq. No.	27238	Seq. ID	OJ000150_27.0124.C26
Gene No.	56423	Strand	+
Start	1	End	642
Name	OJ000150_27.0124.C26.o1.np	Method	AAT/NAP
Start	1	End	642
GI	6815072	Score	163
Exons	1..39, 298..642		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	27239	Seq. ID	OJ000150_27.0124.C27
Gene No.	56424	Strand	+
Start	69	End	116
Name	OJ000150_27.0124.C27.o1.gs	Method	GENSCAN
Start	69	End	116
GI	none	Score	.41
Exons	69..116		

Seq. No.	27239	Seq. ID	OJ000150_27.0124.C27
Gene No.	56425	Strand	+
Start	69	End	682
Name	OJ000150_27.0124.C27.o1.gp	Method	AAT/GAP
Start	69	End	607
GI	877_1.R1084	Score	329
Exons	69..116, 239..348, 549..607		
GI Descrip.	'4574135/gb AAD23907.1 AF073695_1 1.0e-169 (AF073695) cysteine synthase [Oryza sativa]'		

Seq. No.	27239	Seq. ID	OJ000150_27.0124.C27
Gene No.	56425	Strand	+
Start	69	End	682
Name	OJ000150_27.0124.C27.o1.tm	Method	TBLASTX:Maize
Start	72	End	608
GI	none	Score	40
Exons	72..119, 226..348, 227..349, 236..355, 237..356, 544..603, 546..608, 547..603		

Seq. No.	27239	Seq. ID	OJ000150_27.0124.C27
Gene No.	56425	Strand	+
Start	69	End	682
Name	OJ000150_27.0124.C27.o1.np	Method	AAT/NAP
Start	84	End	682
GI	4574135	Score	243
Exons	84..116, 239..348, 549..682		
GI Descrip.	(AF073695) cysteine synthase [Oryza sativa]		

Seq. No.	27239	Seq. ID	OJ000150_27.0124.C27
Gene No.	56425	Strand	+
Start	69	End	682
Name	OJ000150_27.0124.C27.o1.ts	Method	TBLASTX:Soybean
Start	205	End	606
GI	none	Score	38
Exons	205..288, 226..348, 227..349, 545..586, 546..599, 546..602, 547..606		

Seq. No.	27239	Seq. ID	OJ000150_27.0124.C27
Gene No.	56425	Strand	+
Start	69	End	682
Name	OJ000150_27.0124.C27.o1.tw	Method	TBLASTX:Wheat
Start	226	End	608
GI	none	Score	183
Exons	226..348, 227..349, 544..606, 546..608, 547..606		

Seq. No.	27240	Seq. ID	OJ000150_27.0124.C28
Gene No.	56426	Strand	-
Start	25	End	118
Name	OJ000150_27.0124.C28.o1.gs	Method	GENSCAN
Start	25	End	118
GI	none	Score	.86
Exons	25..118		

Seq. No.	27241	Seq. ID	OJ000150_27.0124.C29
Gene No.	56427	Strand	-
Start	110	End	173
Name	OJ000150_27.0124.C29.o1.gs	Method	GENSCAN
Start	110	End	173
GI	none	Score	.83
Exons	110..173		

Seq. No.	27242	Seq. ID	OJ000150_27.0124.C30
Gene No.	56428	Strand	-
Start	18	End	338
Name	OJ000150_27.0124.C30.o1.gs	Method	GENSCAN
Start	18	End	338
GI	none	Score	.7
Exons	18..338		

Seq. No.	27243	Seq. ID	OJ000150_27.0124.C31
Gene No.	56429	Strand	-
Start	618	End	689
Name	OJ000150_27.0124.C31.o1.gs	Method	GENSCAN
Start	618	End	689
GI	none	Score	.8
Exons	618..689		

Seq. No.	27244	Seq. ID	OJ000150_27.0124.C32
Gene No.	56430	Strand	+
Start	1	End	485
Name	OJ000150_27.0124.C32.o1.gp	Method	AAT/GAP
Start	1	End	369
GI	101595_1.R1084	Score	423
Exons	1..179, 295..369		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	27244	Seq. ID	OJ000150_27.0124.C32
Gene No.	56430	Strand	+
Start	1	End	485
Name	OJ000150_27.0124.C32.o1.np	Method	AAT/NAP
Start	1	End	485
GI	6630696	Score	723
Exons	1..485		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27244	Seq. ID	OJ000150_27.0124.C32
Gene No.	56430	Strand	+
Start	1	End	485
Name	OJ000150_27.0124.C32.o1.gs	Method	GENSCAN
Start	148	End	405
GI	none	Score	.54
Exons	148..184, 295..405		

Seq. No.	27244	Seq. ID	OJ000150_27.0124.C32
Gene No.	56430	Strand	+
Start	1	End	485
Name	OJ000150_27.0124.C32.o1.tm	Method	TBLASTX:Maize
Start	290	End	425
GI	none	Score	183
Exons	290..421, 291..416, 294..425		

Seq. No.	27245	Seq. ID	OJ000150_27.0124.C33
Gene No.	56431	Strand	+
Start	146	End	501
Name	OJ000150_27.0124.C33.o1.gs	Method	GENSCAN
Start	146	End	501
GI	none	Score	.76
Exons	146..238, 316..501		

Seq. No.	27245	Seq. ID	OJ000150_27.0124.C33
Gene No.	56432	Strand	-
Start	789	End	930
Name	OJ000150_27.0124.C33.o2.gs	Method	GENSCAN
Start	789	End	930
GI	none	Score	.92
Exons	789..930		

Seq. No.	27246	Seq. ID	OJ000150_27.0124.C34
Gene No.	56433	Strand	-
Start	72	End	159

Name	OJ000150_27.0124.C34.ol.gs	Method	GENSCAN
Start	72	End	159
GI	none	Score	.55
Exons	72..159		
Seq. No.	27247	Seq. ID	OJ000150_27.0124.C37
Gene No.	56434	Strand	-
Start	493	End	639
Name	OJ000150_27.0124.C37.ol.gs	Method	GENSCAN
Start	493	End	639
GI	none	Score	.86
Exons	493..639		
Seq. No.	27248	Seq. ID	OJ000150_27.0124.C39
Gene No.	56435	Strand	+
Start	1	End	736
Name	OJ000150_27.0124.C39.ol.np	Method	AAT/NAP
Start	1	End	736
GI	4680179	Score	794
Exons	1..736		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	27248	Seq. ID	OJ000150_27.0124.C39
Gene No.	56435	Strand	+
Start	1	End	736
Name	OJ000150_27.0124.C39.ol.tw	Method	TBLASTX:Wheat
Start	157	End	513
GI	none	Score	129
Exons	157..369, 216..284, 373..513, 384..491		
Seq. No.	27248	Seq. ID	OJ000150_27.0124.C39
Gene No.	56435	Strand	+
Start	1	End	736
Name	OJ000150_27.0124.C39.ol.tm	Method	TBLASTX:Maize
Start	367	End	534
GI	none	Score	184
Exons	367..534, 375..533		
Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56436	Strand	+
Start	1	End	4612
Name	OJ000150_27.0124.C40.ol.np	Method	AAT/NAP
Start	1	End	4612
GI	1723275	Score	212
Exons	1..43, 1238..1410, 1652..1704, 1965..2036, 3568..3683, 3770..3876, 4047..4204, 4371..4612		
GI Descrip.	HYPOTHETICAL 55.6 KD PROTEIN C17D1.02 IN CHROMOSOME II gi 2130223 pir  S67390 hypothetical protein - fission yeast (Schizosaccharomyces pombe) gi 3451294 emb CAA20426.1  (AL031322) putative diphthamide biosynthesis protein [Schizosaccharomyces pombe]		
Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56436	Strand	+
Start	1	End	4612
Name	OJ000150_27.0124.C40.ol.gs	Method	GENSCAN
Start	232	End	4603

GI	none	Score	.87
Exons	232..354, 1007..1391, 1799..1868, 1969..2036, 3568..3683, 3770..3876, 4047..4186, 4353..4603		
Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56437	Strand	+
Start	9303	End	11070
Name	OJ000150_27.0124.C40.o2.np	Method	AAT/NAP
Start	9303	End	11070
GI	629693	Score	282
Exons	9303..9334, 10416..11070		
GI Descrip.	probable integrase - common tobacco (fragment) gi 530742 emb CAA56791  (X80830) integrase [Nicotiana tabacum]		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56438	Strand	+
Start	18549	End	18875
Name	OJ000150_27.0124.C40.o2.gp	Method	AAT/GAP
Start	18549	End	18875
GI	4878810	Score	650
Exons	18549..18875		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56439	Strand	+
Start	19460	End	22763
Name	OJ000150_27.0124.C40.o5.np	Method	AAT/NAP
Start	19460	End	22763
GI	4680207	Score	1243
Exons	19460..20290, 20455..22290, 22671..22763		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56440	Strand	-
Start	4627	End	4711
Name	OJ000150_27.0124.C40.o1.gp	Method	AAT/GAP
Start	4627	End	4711
GI	LIB3477-003-P1-K1-E9	Score	112
Exons	4627..4711		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56441	Strand	-
Start	5740	End	6117
Name	OJ000150_27.0124.C40.o2.gs	Method	GENSCAN
Start	5740	End	6117
GI	none	Score	.7
Exons	5740..6117		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56442	Strand	-
Start	15067	End	19335
Name	OJ000150_27.0124.C40.o2.tm	Method	TBLASTX:Maize
Start	4352	End	4608
GI	none	Score	154

Exons 4352..4471, 4355..4459, 4438..4470, 4509..4607, 4510..4608, 4511..4603

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56442	Strand	-
Start	15067	End	19335
Name	OJ000150_27.0124.C40.o2.ts	Method	TBLASTX:Soybean
Start	10450	End	10734
GI	none	Score	187
Exons	10450..10734		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56442	Strand	-
Start	15067	End	19335
Name	OJ000150_27.0124.C40.o3.np	Method	AAT/NAP
Start	15067	End	19335
GI	6598399	Score	87
Exons	15067..15276, 19301..19335		
GI Descrip.	(AC003952) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56443	Strand	-
Start	19492	End	20009
Name	OJ000150_27.0124.C40.o3.tm	Method	TBLASTX:Maize
Start	19492	End	20009
GI	none	Score	36
Exons	19492..19530, 19646..19762, 19647..19757, 19818..20009, 19860..19985		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56444	Strand	-
Start	20058	End	21172
Name	OJ000150_27.0124.C40.o1.tc	Method	TBLASTX:Cress
Start	20058	End	21124
GI	none	Score	81
Exons	20058..20120, 20063..20116, 20612..20713, 20614..20697, 20738..20911, 20785..20871, 20930..21124		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56444	Strand	-
Start	20058	End	21172
Name	OJ000150_27.0124.C40.o1.ts	Method	TBLASTX:Soybean
Start	20407	End	21091
GI	none	Score	104
Exons	20407..20487, 20420..20593, 20600..20926, 20602..20718, 20743..20925, 20918..21091		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56444	Strand	-
Start	20058	End	21172
Name	OJ000150_27.0124.C40.o1.tw	Method	TBLASTX:Wheat
Start	20594	End	20904
GI	none	Score	244
Exons	20594..20902, 20602..20718, 20740..20904, 20812..20904		

Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
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Gene No.	56444	Strand	
Start	20058	End	21172
Name	OJ000150_27.0124.C40.o1.tm	Method	TBLASTX:Maize
Start	20617	End	21112
GI	none	Score	90
Exons	20617..20700, 20618..20701, 20782..20910, 20783..20917, 20783..20917, 20939..21112		
Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56444	Strand	
Start	20058	End	21172
Name	OJ000150_27.0124.C40.o3.tw	Method	TBLASTX:Wheat
Start	20906	End	21172
GI	none	Score	181
Exons	20906..21172, 21037..21156		
Seq. No.	27249	Seq. ID	OJ000150_27.0124.C40
Gene No.	56445	Strand	
Start	21206	End	21562
Name	OJ000150_27.0124.C40.o2.tw	Method	TBLASTX:Wheat
Start	21206	End	21562
GI	none	Score	211
Exons	21206..21562, 21349..21555		
Seq. No.	27250	Seq. ID	OJ000150_27.0124.C41
Gene No.	56446	Strand	-
Start	395	End	5527
Name	OJ000150_27.0124.C41.o1.gs	Method	GENSCAN
Start	395	End	5527
GI	none	Score	.62
Exons	395..466, 1463..1555, 3321..3415, 4014..4074, 4914..5015, 5111..5527		
Seq. No.	27250	Seq. ID	OJ000150_27.0124.C41
Gene No.	56446	Strand	-
Start	395	End	5527
Name	OJ000150_27.0124.C41.o1.np	Method	AAT/NAP
Start	1415	End	3194
GI	4929699	Score	60
Exons	1415..1547, 3113..3194		
GI Descrip.	(AF151873) CGI-115 protein [Homo sapiens]		
Seq. No.	27250	Seq. ID	OJ000150_27.0124.C41
Gene No.	56446	Strand	-
Start	395	End	5527
Name	OJ000150_27.0124.C41.o1.gp	Method	AAT/GAP
Start	3104	End	3432
GI	2428232	Score	551
Exons	3104..3432		
Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56447	Strand	+
Start	1428	End	1830
Name	OJ000150_27.0124.C42.o1.gs	Method	GENSCAN
Start	1428	End	1830
GI	none	Score	.67
Exons	1428..1517, 1723..1830		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56448	Strand	+
Start	20087	End	33928
Name	OJ000150_27.0124.C42.o3.gs	Method	GENSCAN
Start	20087	End	33928
GI	none	Score	.72
Exons	20087..20441, 20477..20559, 22344..22490, 23652..23726, 24580..24979, 25027..25351, 26709..28704, 28867..29066, 33766..33928		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56448	Strand	+
Start	20087	End	33928
Name	OJ000150_27.0124.C42.o3.np	Method	AAT/NAP
Start	25140	End	27297
GI	2792216	Score	571
Exons	25140..25351, 26709..27297		
GI Descrip.	(AF032686) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56448	Strand	+
Start	20087	End	33928
Name	OJ000150_27.0124.C42.o1.gp	Method	AAT/GAP
Start	28142	End	28654
GI	none	Score	950
Exons	28142..28654		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56448	Strand	+
Start	20087	End	33928
Name	OJ000150_27.0124.C42.o2.gp	Method	AAT/GAP
Start	29918	End	30015
GI	uC-osflcyp022c06b2	Score	148
Exons	29918..30015		
GI Descrip.	'5042437/gb AC007789.1 AC007789 8.0e-25 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56449	Strand	+
Start	53292	End	56487
Name	OJ000150_27.0124.C42.o5.gs	Method	GENSCAN
Start	53292	End	56487
GI	none	Score	.78
Exons	53292..53454, 54288..54380, 55459..55522, 55722..56487		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56449	Strand	+
Start	53292	End	56487
Name	OJ000150_27.0124.C42.o5.np	Method	AAT/NAP
Start	54616	End	56364
GI	6136545	Score	226
Exons	54616..54638, 55892..56364		
GI Descrip.	YCF53-LIKE PROTEIN gi 1651654 dbj BAA16582  (D90899) hypothetical protein [Synechocystis sp.]		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
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Gene No.	56449	Strand	+
Start	53292	End	56487
Name	OJ000150_27.0124.C42.o4.gp	Method	AAT/GAP
Start	55453	End	56029
GI	10982_1.R1084	Score	1150
Exons	55453..56029		
GI Descrip.	'1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene'		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56450	Strand	+
Start	65963	End	71107
Name	OJ000150_27.0124.C42.o8.gs	Method	GENSCAN
Start	65963	End	71107
GI	none	Score	.72
Exons	65963..66083, 67282..67409, 67773..67830, 67931..67972, 68554..68672, 69063..69129, 69492..69583, 69902..70039, 70326..70409, 71036..71107		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56450	Strand	+
Start	65963	End	71107
Name	OJ000150_27.0124.C42.o6.np	Method	AAT/NAP
Start	66383	End	70715
GI	6850320	Score	606
Exons	66383..66452, 68560..68672, 69063..69129, 69492..69583, 69902..70039, 70118..70229, 70286..70409, 70575..70715		
GI Descrip.	(AC009999) Contains similarity to an endonuclease III homolog from Homo sapiens gb U81285, and contains an Endonuclease III PF 00730 domain. [Arabidopsis thaliana]		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56451	Strand	+
Start	76656	End	79468
Name	OJ000150_27.0124.C42.o10.gs	Method	GENSCAN
Start	76656	End	79468
GI	none	Score	.91
Exons	76656..76733, 79388..79468		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56452	Strand	+
Start	84152	End	84674
Name	OJ000150_27.0124.C42.o11.gs	Method	GENSCAN
Start	84152	End	84674
GI	none	Score	.77
Exons	84152..84269, 84508..84674		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56453	Strand	-
Start	4771	End	21659
Name	OJ000150_27.0124.C42.o2.np	Method	AAT/NAP
Start	2413	End	21659
GI	4680207	Score	1151
Exons	2413..2453, 7123..8639, 8879..9034, 12723..12901, 13067..13408, 15070..15562, 21630..21659		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56453	Strand	-
Start	4771	End	21659
Name	OJ000150_27.0124.C42.o2.gs	Method	GENSCAN
Start	4771	End	18940
GI	none	Score	.61
Exons	4771..4940, 7196..7447, 8894..9034, 12768..12985, 13067..13277, 13635..14057, 14763..14902, 15046..15592, 18148..18250, 18643..18717, 18881..18940		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56453	Strand	-
Start	4771	End	21659
Name	OJ000150_27.0124.C42.o1.np	Method	AAT/NAP
Start	5957	End	11967
GI	4680207	Score	610
Exons	5957..5982, 7116..8639, 8879..9117, 11886..11967		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56454	Strand	-
Start	34840	End	51177
Name	OJ000150_27.0124.C42.o3.gp	Method	AAT/GAP
Start	34664	End	35000
GI	none	Score	641
Exons	34664..35000		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56454	Strand	-
Start	34840	End	51177
Name	OJ000150_27.0124.C42.o4.gs	Method	GENSCAN
Start	34840	End	51177
GI	none	Score	.94
Exons	34840..35109, 36285..36397, 36487..36677, 37481..37595, 38656..38782, 39790..39865, 41122..41240, 42305..42468, 42541..42654, 42841..42963, 45050..45128, 46388..46534, 46779..47036, 47532..47727, 50415..50534, 50921..51177		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56454	Strand	-
Start	34840	End	51177
Name	OJ000150_27.0124.C42.o4.np	Method	AAT/NAP
Start	42298	End	43822
GI	6002071	Score	163
Exons	42298..42389, 43636..43822		
GI Descrip.	(X84136) ribosomal protein S4 [Oncidium ansiferum]		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56455	Strand	-
Start	57146	End	62337
Name	OJ000150_27.0124.C42.o6.gs	Method	GENSCAN
Start	57146	End	62337
GI	none	Score	.65
Exons	57146..57238, 57575..57668, 58973..59029, 59150..59207, 60409..60472, 60711..60772, 60850..60901, 61284..61404,		

62243..62337

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56456	Strand	-
Start	62943	End	64006
Name	OJ000150_27.0124.C42.o7.gs	Method	GENSCAN
Start	62943	End	64006
GI	none	Score	.63
Exons	62943..63082, 63484..63667, 63692..64006		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56457	Strand	-
Start	70760	End	76743
Name	OJ000150_27.0124.C42.o7.np	Method	AAT/NAP
Start	70760	End	76743
GI	2921158	Score	2881
Exons	70760..70822, 71573..72700, 72821..72910, 73017..73092, 73635..73852, 74159..74374, 74739..74924, 75040..75171, 75256..75368, 75934..76259, 76491..76743		

GI Descrip. (AF022909) ClpC [Arabidopsis thaliana]

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56457	Strand	-
Start	70760	End	76743
Name	OJ000150_27.0124.C42.o9.gs	Method	GENSCAN
Start	71519	End	76519
GI	none	Score	.85
Exons	71519..72700, 72821..72910, 73017..73092, 73635..73852, 74159..74374, 74739..74924, 75040..75171, 75256..75368, 75934..76519		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56457	Strand	-
Start	70760	End	76743
Name	OJ000150_27.0124.C42.o5.gp	Method	AAT/GAP
Start	74843	End	76058
GI	uC-osflm202094d11b1	Score	793
Exons	74843..74924, 75040..75171, 75256..75368, 75934..76058		
GI Descrip.	'1168972/sp P46523 CLPA BRANA 4.0e-41 ATP-DEPENDENT CLP PROTEASE ATP-BINDING SUBUNIT CLPA PRECURSOR >gi_480969_pir_S37557 clpA protein - rape (fragment) >gi_406311_emb_CAA53077_(X75328) clpA [Brassica napus]'		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56458	Strand	-
Start	78601	End	78842
Name	OJ000150_27.0124.C42.o6.gp	Method	AAT/GAP
Start	78601	End	78842
GI	uC-osflcyp169f03b1	Score	278
Exons	78601..78842		
GI Descrip.	'5441872/dbj AP000366.1 AP000366 1.0e-17 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o6.tw	Method	TBLASTX:Wheat

Start	8101	End	27663
GI	none	Score	268
Exons	8101..8181, 8257..8547, 27220..27663, 27291..27509		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o8.ts	Method	TBLASTX:Soybean
Start	8338	End	27504
GI	none	Score	41
Exons	8338..8511, 8339..8419, 8491..8634, 8504..8653, 8880..9035, 12763..12945, 26749..26928, 26940..27257, 27052..27258, 27273..27401, 27280..27504		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o10.tm	Method	TBLASTX:Maize
Start	8503	End	27288
GI	none	Score	69
Exons	8503..8634, 8504..8671, 8880..8978, 27024..27251, 27028..27273, 27049..27288		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o7.tw	Method	TBLASTX:Wheat
Start	12772	End	26928
GI	none	Score	169
Exons	12772..12972, 26722..26928		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o12.ts	Method	TBLASTX:Soybean
Start	34816	End	35047
GI	none	Score	117
Exons	34816..34983, 34847..34957, 34984..35046, 34985..35047		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o5.tw	Method	TBLASTX:Wheat
Start	34978	End	36615
GI	none	Score	122
Exons	34978..35109, 34982..35110, 36284..36376, 36285..36398, 36285..36398, 36322..36399, 36485..36613, 36486..36611, 36487..36615, 36567..36614		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o5.ts	Method	TBLASTX:Soybean
Start	35053	End	38755
GI	none	Score	89
Exons	35053..35109, 36283..36399, 36285..36398, 36483..36617, 36485..36685, 37478..37570, 37480..37599, 37481..37594,		

38642..38755

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o4.tm	Method	TBLASTX:Maize
Start	36312	End	39865
GI	none	Score	76
Exons	36312..36398, 36320..36376, 36325..36405, 36483..36554, 36485..36550, 36548..36679, 36551..36679, 36561..36683, 37480..37599, 37481..37594, 37516..37656, 38653..38694, 38656..38697, 38702..38755, 38703..38783, 38715..38786, 39624..39695, 39631..39699, 39790..39864, 39809..39865		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o9.tm	Method	TBLASTX:Maize
Start	42351	End	42676
GI	none	Score	89
Exons	42351..42443, 42353..42466, 42358..42453, 42546..42659, 42551..42667, 42554..42676		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o4.tc	Method	TBLASTX:Cress
Start	43625	End	43909
GI	none	Score	94
Exons	43625..43732, 43638..43727, 43724..43795, 43740..43799, 43790..43828, 43790..43909		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o11.tm	Method	TBLASTX:Maize
Start	47597	End	48196
GI	none	Score	104
Exons	47597..47725, 47601..47744, 47601..47741, 47602..47742, 48052..48195, 48056..48196		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o2.tm	Method	TBLASTX:Maize
Start	55493	End	56463
GI	none	Score	34
Exons	55493..55516, 55495..55515, 55547..55567, 55551..55574, 55642..55749, 55652..55807, 55915..56343, 55978..56349, 56398..56463, 56420..56461		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o3.tc	Method	TBLASTX:Cress
Start	55918	End	56118
GI	none	Score	198

Exons 55918..56118

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o2.ts	Method	TBLASTX:Soybean
Start	56046	End	56349
GI	none	Score	424
Exons	56046..56342, 56047..56343, 56047..56349		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o7.tm	Method	TBLASTX:Maize
Start	57575	End	61228
GI	none	Score	59
Exons	57575..57625, 57575..57634, 57620..57667, 57621..57671, 58972..59061, 58973..59089, 58974..59090, 59149..59211, 60407..60472, 60408..60479, 60408..60473, 60706..60771, 60710..60772, 60726..60782, 60846..60902, 60854..60904, 60854..60919, 60976..61053, 60978..61055, 61013..61054, 61148..61228, 61151..61228		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o10.ts	Method	TBLASTX:Soybean
Start	60854	End	61407
GI	none	Score	43
Exons	60854..60919, 60855..60902, 60975..61052, 60988..61053, 61154..61228, 61155..61229, 61326..61406, 61327..61407		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o3.tm	Method	TBLASTX:Maize
Start	68543	End	70691
GI	none	Score	198
Exons	68543..68674, 68544..68672, 68544..68678, 69051..69131, 69060..69128, 69476..69586, 69490..69585, 69514..69588, 69902..70045, 69911..70045, 69919..70047, 70117..70227, 70118..70222, 70320..70394, 70323..70394, 70324..70395, 70574..70660, 70575..70661, 70643..70681, 70647..70691		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o4.ts	Method	TBLASTX:Soybean
Start	69890	End	70415
GI	none	Score	146
Exons	69890..70045, 69901..70041, 70109..70228, 70117..70230, 70118..70222, 70323..70412, 70323..70415		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o1.tm	Method	TBLASTX:Maize

Start	71519	End	75081
GI	none	Score	199
Exons	71519..71557, 71561..71899, 71615..71935, 71799..71924, 71978..72616, 71994..72593, 72596..72700, 72821..72847, 72979..73095, 73014..73094, 73632..73853, 73637..73855, 73648..73854, 73780..73863, 74111..74377, 74159..74377, 74722..74925, 74736..74924, 74738..74926, 75040..75081, 75040..75075		

  

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o1.ts	Method	TBLASTX:Soybean
Start	71528	End	72430
GI	none	Score	167
Exons	71528..71899, 71615..71935, 71616..71924, 71978..72430, 71994..72383		

  

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o1.tc	Method	TBLASTX:Cress
Start	71576	End	76226
GI	none	Score	107
Exons	71576..71719, 71615..71935, 71616..71780, 71799..71924, 71978..72592, 71994..72593, 72599..72700, 72979..73095, 73014..73094, 73632..73853, 73637..73855, 74111..74377, 74165..74377, 74736..74909, 74736..74924, 74737..74925, 74738..74926, 74738..74926, 75032..75091, 75038..75124, 75039..75116, 75040..75141, 75253..75300, 75349..75369, 75932..76225, 75933..76226, 76025..76216		

  

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o1.tw	Method	TBLASTX:Wheat
Start	71591	End	72155
GI	none	Score	97
Exons	71591..71719, 71615..71935, 71616..71924, 71978..72154, 71994..72155		

  

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o3.tw	Method	TBLASTX:Wheat
Start	72236	End	72599
GI	none	Score	69
Exons	72236..72292, 72236..72598, 72246..72599		

  

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o3.ts	Method	TBLASTX:Soybean
Start	72431	End	75093
GI	none	Score	156
Exons	72431..72592, 72432..72593, 72599..72700, 72623..72679, 72979..73095, 73014..73094, 73632..73853, 73637..73855,		

74111..74377, 74159..74377, 74713..74925, 74736..74924,  
74803..74925, 75032..75091, 75040..75093

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o8.tw	Method	TBLASTX:Wheat
Start	74862	End	76216
GI	none	Score	82
Exons	74862..74924, 74863..74925, 75040..75129, 75040..75144, 75253..75300, 75349..75369, 75932..76027, 75933..76028, 76025..76216, 76101..76178		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o5.tm	Method	TBLASTX:Maize
Start	75932	End	76226
GI	none	Score	205
Exons	75932..76225, 75933..76226		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o6.ts	Method	TBLASTX:Soybean
Start	75944	End	76226
GI	none	Score	167
Exons	75944..76225, 75945..76226		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o8.np	Method	AAT/NAP
Start	86437	End	87866
GI	6630696	Score	2317
Exons	86437..87866		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o2.tw	Method	TBLASTX:Wheat
Start	86578	End	87047
GI	none	Score	371
Exons	86578..86958, 86583..86957, 86973..87047, 86974..87042		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o11.ts	Method	TBLASTX:Soybean
Start	86700	End	87041
GI	none	Score	96
Exons	86700..86909, 86779..86904, 86922..87041		

Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
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Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o6.tm	Method	TBLASTX:Maize
Start	86903	End	87275
GI	none	Score	89
Exons	86903..87151, 86904..87275, 86905..87252		
Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o9.ts	Method	TBLASTX:Soybean
Start	87051	End	87402
GI	none	Score	75
Exons	87051..87233, 87054..87242, 87055..87243, 87238..87402, 87243..87401		
Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o4.tw	Method	TBLASTX:Wheat
Start	87255	End	87799
GI	none	Score	69
Exons	87255..87461, 87456..87728, 87731..87799		
Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o8.tm	Method	TBLASTX:Maize
Start	87336	End	87799
GI	none	Score	56
Exons	87336..87728, 87439..87546, 87585..87665, 87730..87786, 87731..87799		
Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o7.ts	Method	TBLASTX:Soybean
Start	87471	End	87865
GI	5509260	Score	60
Exons	87471..87728, 87491..87763, 87585..87725, 87731..87865, 87735..87839		
GI Descrip.	-		
Seq. No.	27251	Seq. ID	OJ000150_27.0124.C42
Gene No.	56459	Strand	-
Start	86437	End	87866
Name	OJ000150_27.0124.C42.o2.tc	Method	TBLASTX:Cress
Start	87582	End	87841
GI	none	Score	35
Exons	87582..87728, 87587..87733, 87728..87841, 87732..87839		
Seq. No.	27252	Seq. ID	OJ000150_27.0124.C43
Gene No.	56460	Strand	+
Start	198	End	334
Name	OJ000150_27.0124.C43.o1.gs	Method	GENSCAN
Start	198	End	334
GI	none	Score	.61

Exons 198..334

Seq. No.	27253	Seq. ID	OJ000150_27.0124.C44
Gene No.	56461	Strand	-
Start	1	End	810
Name	OJ000150_27.0124.C44.o1.np	Method	AAT/NAP
Start	1	End	810
GI	4680207	Score	163
Exons	1..76, 537..810		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	27254	Seq. ID	OJ000150_27.0124.C46
Gene No.	56462	Strand	+
Start	53	End	259
Name	OJ000150_27.0124.C46.o1.gs	Method	GENSCAN
Start	53	End	259
GI	none	Score	1
Exons	53..259		

Seq. No.	27255	Seq. ID	OJ000150_27.0124.C47
Gene No.	56463	Strand	-
Start	1	End	344
Name	OJ000150_27.0124.C47.o1.gp	Method	AAT/GAP
Start	1	End	344
GI	10982_1.R1084	Score	590
Exons	1..344		
GI Descrip.	'1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene'		

Seq. No.	27256	Seq. ID	OJ000150_27.0124.C48
Gene No.	56464	Strand	-
Start	258	End	447
Name	OJ000150_27.0124.C48.o1.gp	Method	AAT/GAP
Start	258	End	447
GI	4878810	Score	354
Exons	258..447		

Seq. No.	27257	Seq. ID	OJ000150_27.0124.C49
Gene No.	56465	Strand	+
Start	1	End	740
Name	OJ000150_27.0124.C49.o1.np	Method	AAT/NAP
Start	1	End	740
GI	137616	Score	1176
Exons	1..740		
GI Descrip.	TERMINASE LARGE SUBUNIT (DNA PACKAGING PROTEIN A) (GPA) gi 76025 pir  JVBPAL DNA-packaging protein A - phage lambda gi 215106 (J02459) A (DNA packaging;641) [Bacteriophage lambda]		

Seq. No.	27257	Seq. ID	OJ000150_27.0124.C49
Gene No.	56465	Strand	+
Start	1	End	740
Name	OJ000150_27.0124.C49.o1.gs	Method	GENSCAN
Start	61	End	651
GI	none	Score	.98
Exons	61..651		

Seq. No.	27258	Seq. ID	OJ000150_27.0124.C51
Gene No.	56466	Strand	+
Start	1	End	75
Name	OJ000150_27.0124.C51.o1.gp	Method	AAT/GAP
Start	1	End	75
GI	LIB3475-012-P1-K1-B11	Score	122
Exons	1..75		
GI Descrip.	'5670155/gb AF161269.1 AF161269 3.0e-29 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	27258	Seq. ID	OJ000150_27.0124.C51
Gene No.	56467	Strand	-
Start	1680	End	1790
Name	OJ000150_27.0124.C51.o2.gs	Method	GENSCAN
Start	1680	End	1790
GI	none	Score	.49
Exons	1680..1790		

Seq. No.	27259	Seq. ID	OJ000150_27.0124.C52
Gene No.	56468	Strand	-
Start	437	End	545
Name	OJ000150_27.0124.C52.o1.gs	Method	GENSCAN
Start	437	End	545
GI	none	Score	.82
Exons	437..545		

Seq. No.	27260	Seq. ID	OJ000150_27.0124.C53
Gene No.	56469	Strand	+
Start	1	End	1351
Name	OJ000150_27.0124.C53.o1.np	Method	AAT/NAP
Start	1	End	1351
GI	4680203	Score	453
Exons	1..761, 1294..1351		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	27260	Seq. ID	OJ000150_27.0124.C53
Gene No.	56469	Strand	+
Start	1	End	1351
Name	OJ000150_27.0124.C53.o1.tw	Method	TBLASTX:Wheat
Start	53	End	820
GI	none	Score	193
Exons	53..391, 109..165, 370..543, 404..559, 548..652, 578..634, 665..763, 670..762, 791..820		

Seq. No.	27260	Seq. ID	OJ000150_27.0124.C53
Gene No.	56469	Strand	+
Start	1	End	1351
Name	OJ000150_27.0124.C53.o1.gs	Method	GENSCAN
Start	142	End	595
GI	none	Score	.72
Exons	142..595		

Seq. No.	27260	Seq. ID	OJ000150_27.0124.C53
Gene No.	56469	Strand	+
Start	1	End	1351
Name	OJ000150_27.0124.C53.o1.tm	Method	TBLASTX:Maize
Start	245	End	535

GI	none	Score	148
Exons	245..415, 419..535, 448..534		
Seq. No.	27261	Seq. ID	OJ000150_27.0124.C54
Gene No.	56470	Strand	+
Start	165	End	521
Name	OJ000150_27.0124.C54.o1.gs	Method	GENSCAN
Start	165	End	521
GI	none	Score	.96
Exons	165..521		
Seq. No.	27262	Seq. ID	OJ000150_27.0124.C56
Gene No.	56471	Strand	-
Start	181	End	360
Name	OJ000150_27.0124.C56.o1.gs	Method	GENSCAN
Start	181	End	360
GI	none	Score	.85
Exons	181..360		
Seq. No.	27263	Seq. ID	OJ000150_27.0124.C58
Gene No.	56472	Strand	+
Start	70	End	295
Name	OJ000150_27.0124.C58.o1.gs	Method	GENSCAN
Start	70	End	295
GI	none	Score	.72
Exons	70..133, -234..295		
Seq. No.	27264	Seq. ID	OJ000150_27.0124.C61
Gene No.	56473	Strand	+
Start	177	End	346
Name	OJ000150_27.0124.C61.o1.gs	Method	GENSCAN
Start	177	End	346
GI	none	Score	.83
Exons	177..264, 331..346		
Seq. No.	27264	Seq. ID	OJ000150_27.0124.C61
Gene No.	56474	Strand	-
Start	1	End	471
Name	OJ000150_27.0124.C61.o1.np	Method	AAT/NAP
Start	1	End	471
GI	5103193	Score	825
Exons	1..471		
GI Descrip.	(AP000342) transposase of Tn10 [Plasmid R100] gi 5738084 gb AAD50242.1 AF162223_1 (AF162223) IS10-left transposase [Shigella flexneri]		
Seq. No.	27264	Seq. ID	OJ000150_27.0124.C61
Gene No.	56475	Strand	
Start	431	End	577
Name	OJ000150_27.0124.C61.o1.tc	Method	TBLASTX:Cress
Start	431	End	577
GI	none	Score	216
Exons	431..577, 433..576		
Seq. No.	27265	Seq. ID	OJ000150_27.0124.C65
Gene No.	56476	Strand	+
Start	77	End	145

Name	OJ000150_27.0124.C65.ol.gs	Method	GENSCAN
Start	77	End	145
GI	none	Score	.67
Exons	77..145		
Seq. No.	27266	Seq. ID	OJ000150_27.0124.C66
Gene No.	56477	Strand	+
Start	412	End	506
Name	OJ000150_27.0124.C66.ol.gp	Method	AAT/GAP
Start	412	End	506
GI	uC-osflm202094d11b1	Score	165
Exons	412..506		
GI Descrip.	'1168972/sp P46523 CLPA BRANA 4.0e-41 ATP-DEPENDENT CLP PROTEASE ATP-BINDING SUBUNIT CLPA PRECURSOR >gi_480969_pir_S37557 clpA protein - rape (fragment) >gi_406311_emb_CAA53077_ (X75328) clpA [Brassica napus]'		
Seq. No.	27266	Seq. ID	OJ000150_27.0124.C66
Gene No.	56478	Strand	-
Start	1	End	506
Name	OJ000150_27.0124.C66.ol.np	Method	AAT/NAP
Start	1	End	506
GI	461753	Score	61
Exons	1..39, 405..506		
GI Descrip.	ATP-DEPENDENT CLP PROTEASE ATP-BINDING SUBUNIT CLPA HOMOLOG PRECURSOR gi 419773 pir  S31164 ATP-dependent ClpB proteinase regulatory chain homolog precursor, chloroplast - garden pea gi 169128 (L09547) nuclear encoded precursor to chloroplast protein [Pisum sativum]		
Seq. No.	27266	Seq. ID	OJ000150_27.0124.C66
Gene No.	56479	Strand	-
Start	414	End	492
Name	OJ000150_27.0124.C66.ol.gs	Method	GENSCAN
Start	414	End	492
GI	none	Score	.7
Exons	414..492		
Seq. No.	27267	Seq. ID	OJ000150_27.0124.C68
Gene No.	56480	Strand	-
Start	347	End	443
Name	OJ000150_27.0124.C68.ol.gs	Method	GENSCAN
Start	347	End	443
GI	none	Score	.89
Exons	347..443		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.ol.np	Method	AAT/NAP
Start	121	End	3467
GI	4680203	Score	1332
Exons	121..1665, 1732..1809, 2041..2066, 2226..2462, 2739..3467		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+

Start	121	End	5571
Name	OJ000150_27.0124.C74.o1.gs	Method	GENSCAN
Start	166	End	5571
GI	none	Score	.4
Exons	166..487, 1248..1731, 2056..2157, 2500..2779, 2846..3246, 3301..3449, 4323..4463, 4889..5017, 5215..5571		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.o2.tw	Method	TBLASTX:Wheat
Start	554	End	1136
GI	none	Score	176
Exons	554..844, 664..864, 760..849, 897..992, 898..1014, 1009..1086, 1086..1136		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.o1.ts	Method	TBLASTX:Soybean
Start	566	End	844
GI	none	Score	233
Exons	566..844		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.o2.tc	Method	TBLASTX:Cress
Start	904	End	1193
GI	none	Score	123
Exons	904..1080, 1086..1193		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.o3.tm	Method	TBLASTX:Maize
Start	996	End	1202
GI	none	Score	83
Exons	996..1058, 1003..1080, 1085..1195, 1086..1202, 1095..1196		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.o1.tm	Method	TBLASTX:Maize
Start	2316	End	2699
GI	none	Score	59
Exons	2316..2384, 2384..2695, 2385..2699, 2385..2696		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.o1.tw	Method	TBLASTX:Wheat
Start	2340	End	3525
GI	none	Score	519
Exons	2340..3095, 2585..2791, 2813..2869, 3074..3247, 3108..3263, 3252..3356, 3282..3338, 3369..3473, 3374..3466, 3496..3525		

Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.o1.tc	Method	TBLASTX:Cress
Start	2630	End	3053
GI	none	Score	294
Exons	2630..2791, 2631..3053, 2813..2869		
Seq. No.	27268	Seq. ID	OJ000150_27.0124.C74
Gene No.	56481	Strand	+
Start	121	End	5571
Name	OJ000150_27.0124.C74.o2.tm	Method	TBLASTX:Maize
Start	2949	End	3239
GI	none	Score	148
Exons	2949..3119, 3123..3239, 3152..3238		
Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56482	Strand	+
Start	381	End	15988
Name	OJ000150_27.0124.C75.o1.gs	Method	GENSCAN
Start	381	End	15883
GI	none	Score	.42
Exons	381..628, 650..1326, 1414..1516, 2282..2374, 2954..3101, 4274..4539, 6601..6679, 6822..6849, 7602..7690, 8378..8525, 8742..8848, 9799..9852, 9991..10206, 11091..11231, 11703..11990, 12503..13023, 13118..13463, 13533..14510, 14547..15073, 15147..15883		
Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56482	Strand	+
Start	381	End	15988
Name	OJ000150_27.0124.C75.o1.np	Method	AAT/NAP
Start	13689	End	15988
GI	6630696	Score	3805
Exons	13689..15988		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		
Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56482	Strand	+
Start	381	End	15988
Name	OJ000150_27.0124.C75.o2.gp	Method	AAT/GAP
Start	13731	End	14621
GI	101595_1.R1084	Score	1419
Exons	13731..14431, 14547..14621		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		
Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56483	Strand	-
Start	5210	End	5615
Name	OJ000150_27.0124.C75.o1.gp	Method	AAT/GAP
Start	5210	End	5615
GI	LIB3477-003-P1-K1-E9	Score	133
Exons	5210..5230, 5529..5615		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN, ORY		

S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56484	Strand	
Start	13583	End	14039
Name	OJ000150_27.0124.C75.o2.tw	Method	TBLASTX:Wheat
Start	13583	End	13980
GI	none	Score	128
Exons	13583..13681, 13584..13718, 13688..13960, 13695..13979, 13798..13980, 13849..13980		

Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56484	Strand	
Start	13583	End	14039
Name	OJ000150_27.0124.C75.o2.tm	Method	TBLASTX:Maize
Start	13730	End	14039
GI	none	Score	314
Exons	13730..13960, 13731..14039, 13860..14036		

Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56485	Strand	
Start	14562	End	14906
Name	OJ000150_27.0124.C75.o1.tm	Method	TBLASTX:Maize
Start	14562	End	14906
GI	none	Score	383
Exons	14562..14834, 14563..14835, 14564..14836, 14564..14836, 14865..14906		

Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56486	Strand	
Start	15018	End	15912
Name	OJ000150_27.0124.C75.o3.tm	Method	TBLASTX:Maize
Start	15018	End	15483
GI	none	Score	48
Exons	15018..15122, 15103..15483, 15258..15476		

Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56486	Strand	
Start	15018	End	15912
Name	OJ000150_27.0124.C75.o3.tw	Method	TBLASTX:Wheat
Start	15126	End	15318
GI	none	Score	257
Exons	15126..15317, 15127..15318		

Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56486	Strand	
Start	15018	End	15912
Name	OJ000150_27.0124.C75.o1.ts	Method	TBLASTX:Soybean
Start	15271	End	15669
GI	none	Score	203
Exons	15271..15492, 15273..15488, 15496..15669		

Seq. No.	27269	Seq. ID	OJ000150_27.0124.C75
Gene No.	56486	Strand	
Start	15018	End	15912
Name	OJ000150_27.0124.C75.o1.tw	Method	TBLASTX:Wheat



Start	15319	End	15912
GI	none	Score	712
Exons	15319..15912, 15326..15784, 15327..15785, 15541..15792, 15821..15910		

Seq. No.	27270	Seq. ID	OJ000150_27.0124.C80
Gene No.	56487	Strand	+
Start	40	End	88
Name	OJ000150_27.0124.C80.ol.gs	Method	GENSCAN
Start	40	End	88
GI	none	Score	.62
Exons	40..88		

Seq. No.	27271	Seq. ID	OJ000150_27.0124.C83
Gene No.	56488	Strand	+
Start	1	End	679
Name	OJ000150_27.0124.C83.ol.np	Method	AAT/NAP
Start	1	End	679
GI	4680207	Score	99
Exons	1..23, 446..679		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	27272	Seq. ID	OJ000150_27.0124.C84
Gene No.	56489	Strand	+
Start	130	End	386
Name	OJ000150_27.0124.C84.ol.gs	Method	GENSCAN
Start	130	End	386
GI	none	Score	.87
Exons	130..386		

Seq. No.	27273	Seq. ID	OJ000150_27.0124.C91
Gene No.	56490	Strand	+
Start	352	End	715
Name	OJ000150_27.0124.C91.ol.gp	Method	AAT/GAP
Start	352	End	715
GI	10982 1.R1084	Score	720
Exons	352..715		
GI Descrip.	'1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene'		

Seq. No.	27274	Seq. ID	OJ000150_27.0124.C92
Gene No.	56491	Strand	-
Start	256	End	515
Name	OJ000150_27.0124.C92.ol.gs	Method	GENSCAN
Start	256	End	515
GI	none	Score	.57
Exons	256..312, 433..515		

Seq. No.	27275	Seq. ID	OJ000150_27.0124.C95
Gene No.	56492	Strand	-
Start	1	End	733
Name	OJ000150_27.0124.C95.ol.np	Method	AAT/NAP
Start	1	End	733
GI	461753	Score	296
Exons	1..73, 370..733		
GI Descrip.	ATP-DEPENDENT CLP PROTEASE ATP-BINDING SUBUNIT CLPA HOMOLOG		

PRECURSOR gi|419773|pir||S31164 ATP-dependent ClpB proteinase regulatory chain homolog precursor, chloroplast - garden pea gi|169128 (L09547) nuclear encoded precursor to chloroplast protein [Pisum sativum]

Seq. No.	27275	Seq. ID	OJ000150_27.0124.C95
Gene No.	56492	Strand	-
Start	1	End	733
Name	OJ000150_27.0124.C95.o1.tc	Method	TBLASTX:Cress
Start	370	End	685
GI	none	Score	186
Exons	370..663, 371..685, 463..654		

Seq. No.	27275	Seq. ID	OJ000150_27.0124.C95
Gene No.	56492	Strand	-
Start	1	End	733
Name	OJ000150_27.0124.C95.o1.ts	Method	TBLASTX:Soybean
Start	370	End	606
GI	none	Score	162
Exons	370..603, 371..604, 445..606		

Seq. No.	27275	Seq. ID	OJ000150_27.0124.C95
Gene No.	56492	Strand	-
Start	1	End	733
Name	OJ000150_27.0124.C95.o1.tm	Method	TBLASTX:Maize
Start	370	End	685
GI	none	Score	193
Exons	370..663, 371..685		

Seq. No.	27275	Seq. ID	OJ000150_27.0124.C95
Gene No.	56492	Strand	-
Start	1	End	733
Name	OJ000150_27.0124.C95.o1.gp	Method	AAT/GAP
Start	372	End	496
GI	uC-osflM202094d11b1	Score	184
Exons	372..496		
GI Descrip.	'1168972/sp P46523 CLPA_BRANA 4.0e-41 ATP-DEPENDENT CLP PROTEASE ATP-BINDING SUBUNIT CLPA PRECURSOR >gi_480969_pir_S37557 clpA protein - rapè (fragment) >gi_406311_emb_CAA53077_ (X75328) clpA [Brassica napus]'		

Seq. No.	27275	Seq. ID	OJ000150_27.0124.C95
Gene No.	56492	Strand	-
Start	1	End	733
Name	OJ000150_27.0124.C95.o1.gs	Method	GENSCAN
Start	372	End	669
GI	none	Score	.94
Exons	372..669		

Seq. No.	27276	Seq. ID	OJ000150_27.0124.C96
Gene No.	56493	Strand	+
Start	55	End	405
Name	OJ000150_27.0124.C96.o1.gs	Method	GENSCAN
Start	55	End	405
GI	none	Score	.65
Exons	55..151, 380..405		

Seq. No. 27277  
 Gene No. 56494  
 Start 357  
 Name OJ000150\_27.0124.C97.ol.gs  
 Start 357  
 GI none  
 Exons 357..692

Seq. ID OJ000150\_27.0124.C97  
 Strand +  
 End 692  
 Method GENSCAN  
 End 692  
 Score .8

Seq. No. 27278  
 Gene No. 56495  
 Start 274  
 Name OJ000150\_27.0124.C98.ol.gs  
 Start 274  
 GI none  
 Exons 274..425, 512..662

Seq. ID OJ000150\_27.0124.C98  
 Strand +  
 End 662  
 Method GENSCAN  
 End 662  
 Score .6

Seq. No. 27279  
 Gene No. 56496  
 Start 245  
 Name OJ000150\_27.0124.C99.ol.gs  
 Start 245  
 GI none  
 Exons 245..309, 343..438

Seq. ID OJ000150\_27.0124.C99  
 Strand +  
 End 438  
 Method GENSCAN  
 End 438  
 Score .7

Seq. No. 27280  
 Gene No. 56497  
 Start 77  
 Name OJ000150\_27.0124.C100.ol.gs  
 Start 77  
 GI none  
 Exons 77..160

Seq. ID OJ000150\_27.0124.C100  
 Strand -  
 End 160  
 Method GENSCAN  
 End 160  
 Score .94

Seq. No. 27281  
 Gene No. 56498  
 Start 220  
 Name OJ000150\_21.0124.C1.ol.gs  
 Start 220  
 GI none  
 Exons 220..352, 577..662

Seq. ID OJ000150\_21.0124.C1  
 Strand -  
 End 662  
 Method GENSCAN  
 End 662  
 Score .55

Seq. No. 27282  
 Gene No. 56499  
 Start 77  
 Name OJ000150\_21.0124.C2.ol.gs  
 Start 77  
 GI none  
 Exons 77..250, 875..943, 1485..1528, 1622..1649

Seq. ID OJ000150\_21.0124.C2  
 Strand -  
 End 1649  
 Method GENSCAN  
 End 1649  
 Score .43

Seq. No. 27282  
 Gene No. 56499  
 Start 77  
 Name OJ000150\_21.0124.C2.ol.gp  
 Start 188  
 GI 4107129  
 Exons 188..484, 565..710

Seq. ID OJ000150\_21.0124.C2  
 Strand -  
 End 1649  
 Method AAT/GAP  
 End 710  
 Score 736

GI Descrip. 1330273/dbj|D85055|RICSINE11 2.0e-18.Rice retroposon p-SINE1-r31 gene

Seq. No.	27282	Seq. ID	OJ000150_21.0124.C2
Gene No.	56499	Strand	-
Start	77	End	1649
Name	OJ000150_21.0124.C2.o2.gp	Method	AAT/GAP
Start	188	End	709
GI	4107129	Score	734
Exons	188..484, 565..709		
GI Descrip.	1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	27283	Seq. ID	OJ000150_21.0124.C5
Gene No.	56500	Strand	-
Start	1268	End	1380
Name	OJ000150_21.0124.C5.o1.gs	Method	GENSCAN
Start	1268	End	1380
GI	none	Score	.94
Exons	1268..1380		

Seq. No.	27284	Seq. ID	OJ000150_21.0124.C6
Gene No.	56501	Strand	+
Start	468	End	868
Name	OJ000150_21.0124.C6.o1.gs	Method	GENSCAN
Start	468	End	868
GI	none	Score	.68
Exons	468..704, 785..868		

Seq. No.	27285	Seq. ID	OJ000150_21.0124.C7
Gene No.	56502	Strand	-
Start	520	End	2171
Name	OJ000150_21.0124.C7.o1.gs	Method	GENSCAN
Start	520	End	2171
GI	none	Score	.51
Exons	520..650, 1022..1194, 1434..1595, 1625..1764, 2042..2171		

Seq. No.	27286	Seq. ID	OJ000150_21.0124.C8
Gene No.	56503	Strand	+
Start	15	End	392
Name	OJ000150_21.0124.C8.o1.gp	Method	AAT/GAP
Start	15	End	392
GI	2309880	Score	477
Exons	15..392		
GI Descrip.	4521194/dbj AB013613.1 AB013613 3.0e-60 Oryza sativa DNA, centromere sequence RCB11.		

Seq. No.	27286	Seq. ID	OJ000150_21.0124.C8
Gene No.	56504	Strand	+
Start	353	End	414
Name	OJ000150_21.0124.C8.o1.gs	Method	GENSCAN
Start	353	End	414
GI	none	Score	.62
Exons	353..414		

Seq. No.	27286	Seq. ID	OJ000150_21.0124.C8
Gene No.	56505	Strand	-
Start	1066	End	1128
Name	OJ000150_21.0124.C8.o2.gp	Method	AAT/GAP

Start	1066	End	1128
GI	LIB3477-003-P1-K1-E9	Score	71
Exons	1066..1128		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27287	Seq. ID	OJ000150_21.0124.C10
Gene No.	56506	Strand	+
Start	203	End	344
Name	OJ000150_21.0124.C10.o1.gs	Method	GENSCAN
Start	203	End	344
GI	none	Score	.57
Exons	203..344		

Seq. No.	27288	Seq. ID	OJ000150_21.0124.C11
Gene No.	56507	Strand	+
Start	1046	End	3526
Name	OJ000150_21.0124.C11.o1.gp	Method	AAT/GAP
Start	1046	End	1531
GI	4107129	Score	786
Exons	1046..1531		
GI Descrip.	1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	27288	Seq. ID	OJ000150_21.0124.C11
Gene No.	56507	Strand	+
Start	1046	End	3526
Name	OJ000150_21.0124.C11.o1.gs	Method	GENSCAN
Start	1361	End	2716
GI	none	Score	.77
Exons	1361..1468, 1528..1685, 2100..2716		

Seq. No.	27288	Seq. ID	OJ000150_21.0124.C11
Gene No.	56507	Strand	+
Start	1046	End	3526
Name	OJ000150_21.0124.C11.o1.tw	Method	TBLASTX:Wheat
Start	1940	End	2336
GI	none	Score	122
Exons	1940..2074, 2114..2335, 2125..2316, 2154..2336		

Seq. No.	27288	Seq. ID	OJ000150_21.0124.C11
Gene No.	56507	Strand	+
Start	1046	End	3526
Name	OJ000150_21.0124.C11.o1.np	Method	AAT/NAP
Start	2045	End	3526
GI	6630696	Score	2131
Exons	2045..3526		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27288	Seq. ID	OJ000150_21.0124.C11
Gene No.	56507	Strand	+
Start	1046	End	3526
Name	OJ000150_21.0124.C11.o2.tm	Method	TBLASTX:Maize
Start	2111	End	2395

GI	none	Score	280
Exons	2111..2395, 2134..2394		
Seq. No.	27288	Seq. ID	OJ000150_21.0124.C11
Gene No.	56507	Strand	+
Start	1046	End	3526
Name	OJ000150_21.0124.C11.o1.tm	Method	TBLASTX:Maize
Start	2882	End	3275
GI	none	Score	320
Exons	2882..3175, 2906..3169, 2959..3177, 3165..3206, 3175..3225, 3222..3275		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o1.np	Method	AAT/NAP
Start	1	End	2748
GI	6630696	Score	4341
Exons	1..2748		

GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o5.ts	Method	TBLASTX:Soybean
Start	136	End	516
GI	none	Score	80
Exons	136..285, 268..516		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o1.gs	Method	GENSCAN
Start	193	End	2867
GI	none	Score	.54
Exons	193..471, 607..1939, 2117..2336, 2714..2867		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o3.tm	Method	TBLASTX:Maize
Start	274	End	738
GI	none	Score	298
Exons	274..738, 555..665		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o4.tw	Method	TBLASTX:Wheat
Start	381	End	573
GI	none	Score	114
Exons	381..569, 381..572, 382..573, 382..573		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+

Start	1	End	2867
Name	OJ000150_21.0124.C12.o2.ts	Method	TBLASTX:Soybean
Start	526	End	924
GI	none	Score	187
Exons	526..747, 528..746, 751..924		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o1.tw	Method	TBLASTX:Wheat
Start	574	End	1329
GI	none	Score	881
Exons	574..1329, 582..1079, 779..1210, 796..1329		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o1.ts	Method	TBLASTX:Soybean
Start	1249	End	1713
GI	5509260	Score	371
Exons	1249..1713, 1344..1505		
GI Descrip.	-		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o1.tc	Method	TBLASTX:Cress
Start	1342	End	1593
GI	none	Score	281
Exons	1342..1593, 1342..1461, 1344..1514		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o1.tm	Method	TBLASTX:Maize
Start	1383	End	1848
GI	none	Score	349
Exons	1383..1514, 1384..1848, 1538..1600, 1638..1745		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o3.tw	Method	TBLASTX:Wheat
Start	1384	End	2136
GI	none	Score	299
Exons	1384..1728, 1401..1562, 1723..1929, 1797..1901, 2083..2136		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o3.ts	Method	TBLASTX:Soybean
Start	1782	End	2133
GI	none	Score	143
Exons	1782..1910, 1783..1941, 1942..2130, 1944..2129, 1951..2133		

Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+

Start	1	End	2867
Name	OJ000150_21.0124.C12.o2.tm	Method	TBLASTX:Maize
Start	1933	End	2280
GI	none	Score	327
Exons	1933..2280, 1939..2271, 1968..2279		
Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o2.tw	Method	TBLASTX:Wheat
Start	2137	End	2612
GI	none	Score	113
Exons	2137..2211, 2138..2206, 2142..2225, 2142..2210, 2226..2612, 2227..2610		
Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56508	Strand	+
Start	1	End	2867
Name	OJ000150_21.0124.C12.o4.ts	Method	TBLASTX:Soybean
Start	2143	End	2484
GI	none	Score	94
Exons	2143..2256, 2178..2246, 2275..2484, 2280..2405		
Seq. No.	27289	Seq. ID	OJ000150_21.0124.C12
Gene No.	56509	Strand	+
Start	2887	End	3239
Name	OJ000150_21.0124.C12.o5.tw	Method	TBLASTX:Wheat
Start	2887	End	3239
GI	none	Score	63
Exons	2887..2958, 2888..2959, 2937..3029, 2960..3031, 2962..3042, 2968..3030, 3030..3104, 3031..3108, 3033..3101, 3034..3105, 3120..3239, 3131..3163, 3135..3209, 3216..3239		
Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56510	Strand	+
Start	1	End	375
Name	OJ000150_21.0124.C13.o1.gp	Method	AAT/GAP
Start	1	End	375
GI	4107129	Score	634
Exons	1..375		
GI Descrip.	1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		
Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56511	Strand	+
Start	5541	End	7527
Name	OJ000150_21.0124.C13.o1.np	Method	AAT/NAP
Start	5541	End	7527
GI	130582	Score	334
Exons	5541..5584, 6733..7527		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi 100342 pir  S04273 hypothetical protein - common tobacco gi 20045 emb CAA32025  (X13777) ORF [Nicotiana tabacum]		
Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56512	Strand	+



Start	16515	End	16583
Name	OJ000150_21.0124.C13.o3.gp	Method	AAT/GAP
Start	16515	End	16583
GI	LIB3477-003-P1-K1-E9	Score	80
Exons	16515..16583		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56513	Strand	+
Start	18379	End	20900
Name	OJ000150_21.0124.C13.o3.np	Method	AAT/NAP
Start	18379	End	20900
GI	6907089	Score	3190
Exons	18379..19640, 19741..20900		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56514	Strand	-
Start	12733	End	17696
Name	OJ000150_21.0124.C13.o4.gs	Method	GENSCAN
Start	12733	End	17696
GI	none	Score	.4
Exons	12733..14247, 14303..14870, 15453..15609, 16599..16770, 17127..17224, 17585..17696		

Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56514	Strand	-
Start	12733	End	17696
Name	OJ000150_21.0124.C13.o2.np	Method	AAT/NAP
Start	12748	End	15135
GI	4218003	Score	367
Exons	12748..13551, 15109..15135		
GI Descrip.	(AC006135) putative flavonol 3-O-glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56514	Strand	-
Start	12733	End	17696
Name	OJ000150_21.0124.C13.o1.tm	Method	TBLASTX:Maize
Start	12769	End	13473
GI	none	Score	137
Exons	12769..12870, 12976..13167, 12977..13162, 13165..13197, 13246..13386, 13261..13386, 13447..13473		

Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56514	Strand	-
Start	12733	End	17696
Name	OJ000150_21.0124.C13.o1.tc	Method	TBLASTX:Cress
Start	12976	End	13473
GI	none	Score	138
Exons	12976..13167, 13007..13168, 13240..13404, 13447..13473		

Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56514	Strand	-
Start	12733	End	17696

Name	OJ000150_21.0124.C13.o2.ts	Method	TBLASTX:Soybean
Start	12976	End	13407
GI	none	Score	179
Exons	12976..13200, 12992..13231, 13252..13407		

Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56514	Strand	-
Start	12733	End	17696
Name	OJ000150_21.0124.C13.o1.tw	Method	TBLASTX:Wheat
Start	12982	End	13153
GI	none	Score	167
Exons	12982..13152, 12992..13153		

Seq. No.	27290	Seq. ID	OJ000150_21.0124.C13
Gene No.	56514	Strand	-
Start	12733	End	17696
Name	OJ000150_21.0124.C13.o1.ts	Method	TBLASTX:Soybean
Start	13447	End	14188
GI	none	Score	71
Exons	13447..13644, 13681..13839, 13912..14055, 14041..14187, 14057..14188		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o5.tm	Method	TBLASTX:Maize
Start	564	End	707
GI	none	Score	126
Exons	564..707, 568..702		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o1.np	Method	AAT/NAP
Start	567	End	5991
GI	6498441	Score	7125
Exons	567..848, 911..2308, 2480..3203, 3378..3512, 3696..4069, 4133..4596, 4927..5991		

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o6.tw	Method	TBLASTX:Wheat
Start	576	End	1124
GI	none	Score	77
Exons	576..701, 580..702, 732..806, 875..1123, 879..1121, 912..1124		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o4.tw	Method	TBLASTX:Wheat
Start	1128	End	5585
GI	none	Score	238
Exons	1128..1529, 1148..1528, 5505..5585		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o2.tm	Method	TBLASTX:Maize
Start	1323	End	1666
GI	none	Score	212
Exons	1323..1439, 1343..1666, 1356..1637		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o8.tw	Method	TBLASTX:Wheat
Start	1859	End	2171
GI	none	Score	57
Exons	1859..2134, 1995..2171		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o2.ts	Method	TBLASTX:Soybean
Start	1919	End	2485
GI	5666795	Score	67
Exons	1919..2134, 2174..2311, 2387..2485		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o5.tw	Method	TBLASTX:Wheat
Start	2174	End	2635
GI	none	Score	73
Exons	2174..2323, 2175..2312, 2367..2543, 2384..2608, 2411..2635		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o1.ts	Method	TBLASTX:Soybean
Start	3041	End	3412
GI	none	Score	90
Exons	3041..3412, 3252..3395		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o2.tw	Method	TBLASTX:Wheat
Start	3071	End	3491
GI	none	Score	305
Exons	3071..3490, 3096..3491		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o3.tm	Method	TBLASTX:Maize
Start	3164	End	3548
GI	none	Score	222
Exons	3164..3547, 3183..3548		

Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o1.tm	Method	TBLASTX:Maize
Start	3581	End	3931
GI	none	Score	68
Exons	3581..3691, 3584..3931, 3586..3786, 3597..3896		
Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o1.tw	Method	TBLASTX:Wheat
Start	3599	End	4061
GI	none	Score	221
Exons	3599..4060, 3605..4060, 3606..4061		
Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o3.ts	Method	TBLASTX:Soybean
Start	3656	End	4021
GI	none	Score	114
Exons	3656..3790, 3797..4021		
Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o3.tw	Method	TBLASTX:Wheat
Start	4226	End	4712
GI	none	Score	88
Exons	4226..4711, 4253..4492, 4257..4517, 4539..4712		
Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o4.tm	Method	TBLASTX:Maize
Start	5552	End	5800
GI	none	Score	105
Exons	5552..5800, 5553..5798		
Seq. No.	27291	Seq. ID	OJ000150_21.0124.C14
Gene No.	56515	Strand	-
Start	567	End	5991
Name	OJ000150_21.0124.C14.o7.tw	Method	TBLASTX:Wheat
Start	5586	End	5788
GI	none	Score	77
Exons	5586..5723, 5588..5707, 5690..5788, 5691..5771		
Seq. No.	27292	Seq. ID	OJ000150_21.0124.C16
Gene No.	56516	Strand	-
Start	1340	End	1702
Name	OJ000150_21.0124.C16.o1.gs	Method	GENSCAN
Start	1340	End	1602
GI	none	Score	.45
Exons	1340..1602		

Seq. No.	27292	Seq. ID	OJ000150_21.0124.C16
Gene No.	56516	Strand	-
Start	1340	End	1702
Name	OJ000150_21.0124.C16.o1.np	Method	AAT/NAP
Start	1359	End	1702
GI	6683052	Score	143
Exons	1359..1702		
GI Descrip.	(AB027455) anthocyanin 5-O-glucosyltransferase [Petunia x hybrida]		

Seq. No.	27293	Seq. ID	OJ000150_21.0124.C17
Gene No.	56517	Strand	+
Start	1	End	910
Name	OJ000150_21.0124.C17.o1.gp	Method	AAT/GAP
Start	1	End	910
GI	4151_1.R1084	Score	917
Exons	1..80, 184..265, 365..461, 582..781, 808..910		
GI Descrip.	'2384956 2.0e-30 (AF022985) No definition line found [Caenorhabditis elegans]'		

Seq. No.	27293	Seq. ID	OJ000150_21.0124.C17
Gene No.	56517	Strand	+
Start	1	End	910
Name	OJ000150_21.0124.C17.o1.np	Method	AAT/NAP
Start	1	End	662
GI	6851256	Score	94
Exons	1..80, 184..265, 365..461, 582..662		
GI Descrip.	(AF169286) protein tyrosine phosphatase-like protein PTPLB [Mus musculus]		

Seq. No.	27293	Seq. ID	OJ000150_21.0124.C17
Gene No.	56517	Strand	+
Start	1	End	910
Name	OJ000150_21.0124.C17.o1.tm	Method	TBLASTX:Maize
Start	9	End	666
GI	none	Score	121
Exons	9..80, 10..81, 181..285, 182..271, 359..469, 359..457, 364..468, 537..665, 574..666, 589..666		

Seq. No.	27293	Seq. ID	OJ000150_21.0124.C17
Gene No.	56517	Strand	+
Start	1	End	910
Name	OJ000150_21.0124.C17.o1.ts	Method	TBLASTX:Soybean
Start	9	End	654
GI	none	Score	114
Exons	9..80, 10..81, 181..261, 182..271, 184..288, 359..490, 363..509, 363..467, 364..468, 574..654, 575..619		

Seq. No.	27293	Seq. ID	OJ000150_21.0124.C17
Gene No.	56517	Strand	+
Start	1	End	910
Name	OJ000150_21.0124.C17.o1.tc	Method	TBLASTX:Cress
Start	10	End	619
GI	none	Score	109
Exons	10..81, 21..80, 181..279, 182..277, 359..469, 362..463, 366..467, 367..468, 575..619		

Seq. No.	27293	Seq. ID	OJ000150_21.0124.C17
Gene No.	56517	Strand	+
Start	1	End	910
Name	OJ000150_21.0124.C17.o1.gs	Method	GENSCAN
Start	34	End	461
GI	none	Score	.55
Exons	34..80, 184..265, 365..461		

Seq. No.	27294	Seq. ID	OJ000150_21.0124.C18
Gene No.	56518	Strand	+
Start	1	End	1033
Name	OJ000150_21.0124.C18.o1.np	Method	AAT/NAP
Start	1	End	1033
GI	5852172	Score	78
Exons	1..41, 875..1033		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	27294	Seq. ID	OJ000150_21.0124.C18
Gene No.	56518	Strand	+
Start	1	End	1033
Name	OJ000150_21.0124.C18.o1.gs	Method	GENSCAN
Start	928	End	1027
GI	none	Score	.64
Exons	928..1027		

Seq. No.	27295	Seq. ID	OJ000150_21.0124.C19
Gene No.	56519	Strand	-
Start	99	End	294
Name	OJ000150_21.0124.C19.o1.gs	Method	GENSCAN
Start	99	End	294
GI	none	Score	.48
Exons	99..294		

Seq. No.	27296	Seq. ID	OJ000150_21.0124.C21
Gene No.	56520	Strand	+
Start	1658	End	1963
Name	OJ000150_21.0124.C21.o1.gs	Method	GENSCAN
Start	1658	End	1963
GI	none	Score	.72
Exons	1658..1850, 1959..1963		

Seq. No.	27296	Seq. ID	OJ000150_21.0124.C21
Gene No.	56521	Strand	-
Start	2883	End	4398
Name	OJ000150_21.0124.C21.o2.gs	Method	GENSCAN
Start	2883	End	4346
GI	none	Score	.86
Exons	2883..3713, 3738..4346		

Seq. No.	27296	Seq. ID	OJ000150_21.0124.C21
Gene No.	56521	Strand	-
Start	2883	End	4398
Name	OJ000150_21.0124.C21.o1.tw	Method	TBLASTX:Wheat
Start	2947	End	3308
GI	none	Score	38
Exons	2947..3006, 3108..3290, 3138..3308, 3175..3294		

Seq. No.	27296	Seq. ID	OJ000150_21.0124.C21
Gene No.	56521	Strand	-
Start	2883	End	4398
Name	OJ000150_21.0124.C21.o1.tc	Method	TBLASTX:Cress
Start	3129	End	3530
GI	none	Score	105
Exons	3129..3314, 3175..3318, 3384..3530		

Seq. No.	27296	Seq. ID	OJ000150_21.0124.C21
Gene No.	56521	Strand	-
Start	2883	End	4398
Name	OJ000150_21.0124.C21.o1.ts	Method	TBLASTX:Soybean
Start	3132	End	3530
GI	none	Score	139
Exons	3132..3356, 3175..3354, 3396..3530		

Seq. No.	27296	Seq. ID	OJ000150_21.0124.C21
Gene No.	56521	Strand	-
Start	2883	End	4398
Name	OJ000150_21.0124.C21.o1.tm	Method	TBLASTX:Maize
Start	3238	End	3666
GI	none	Score	56
Exons	3238..3294, 3240..3299, 3273..3356, 3274..3357, 3360..3611, 3363..3551, 3367..3612, 3540..3665, 3553..3666		

Seq. No.	27296	Seq. ID	OJ000150_21.0124.C21
Gene No.	56521	Strand	-
Start	2883	End	4398
Name	OJ000150_21.0124.C21.o1.gp	Method	AAT/GAP
Start	3961	End	4398
GI	2427491	Score	710
Exons	3961..3996, 4029..4398		

Seq. No.	27297	Seq. ID	OJ000150_21.0124.C22
Gene No.	56522	Strand	+
Start	177	End	2973
Name	OJ000150_21.0124.C22.o1.gs	Method	GENSCAN
Start	177	End	2973
GI	none	Score	.46
Exons	177..227, 919..1222, 2701..2973		

Seq. No.	27297	Seq. ID	OJ000150_21.0124.C22
Gene No.	56523	Strand	-
Start	1227	End	1501
Name	OJ000150_21.0124.C22.o1.gp	Method	AAT/GAP
Start	1227	End	1501
GI	none	Score	486
Exons	1227..1501		

Seq. No.	27297	Seq. ID	OJ000150_21.0124.C22
Gene No.	56524	Strand	-
Start	2808	End	3057
Name	OJ000150_21.0124.C22.o2.gp	Method	AAT/GAP
Start	2808	End	3057
GI	none	Score	453
Exons	2808..3057		

Seq. No.	27298	Seq. ID	OJ000150_21.0124.C23
Gene No.	56525	Strand	+
Start	2065	End	2409
Name	OJ000150_21.0124.C23.o1.gs	Method	GENSCAN
Start	2065	End	2409
GI	none	Score	.6
Exons	2065..2283, 2383..2409		
Seq. No.	27298	Seq. ID	OJ000150_21.0124.C23
Gene No.	56526	Strand	-
Start	2530	End	3087
Name	OJ000150_21.0124.C23.o1.gp	Method	AAT/GAP
Start	2530	End	3087
GI	21474_1.R1084	Score	234
Exons	2530..2562, 2931..3087		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	27298	Seq. ID	OJ000150_21.0124.C23
Gene No.	56527	Strand	-
Start	3439	End	7116
Name	OJ000150_21.0124.C23.o2.gs	Method	GENSCAN
Start	3439	End	5611
GI	none	Score	.48
Exons	3439..3624, 3700..3802, 4054..4164, 4261..4434, 4544..4961, 4984..5611		
Seq. No.	27298	Seq. ID	OJ000150_21.0124.C23
Gene No.	56527	Strand	-
Start	3439	End	7116
Name	OJ000150_21.0124.C23.o1.np	Method	AAT/NAP
Start	3457	End	7116
GI	4680204	Score	976
Exons	3457..3594, 3945..4164, 4261..4434, 4544..5605, 5680..7116		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	27298	Seq. ID	OJ000150_21.0124.C23
Gene No.	56527	Strand	-
Start	3439	End	7116
Name	OJ000150_21.0124.C23.o2.tw	Method	TBLASTX:Wheat
Start	4095	End	4617
GI	none	Score	68
Exons	4095..4166, 4266..4448, 4273..4398, 4537..4617		
Seq. No.	27298	Seq. ID	OJ000150_21.0124.C23
Gene No.	56527	Strand	-
Start	3439	End	7116
Name	OJ000150_21.0124.C23.o2.gp	Method	AAT/GAP
Start	4644	End	5084
GI	uC-osflcyp176f10b1	Score	700
Exons	4644..5084		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		
Seq. No.	27298	Seq. ID	OJ000150_21.0124.C23
Gene No.	56527	Strand	-



Start	3439	End	7116
Name	OJ000150_21.0124.C23.o1.tw	Method	TBLASTX:Wheat
Start	6070	End	6473
GI	none	Score	42
Exons	6070..6165, 6070..6240, 6203..6370, 6235..6471, 6322..6471, 6333..6473, 6363..6473		

Seq. No.	27298	Seq. ID	OJ000150_21.0124.C23
Gene No.	56527	Strand	-
Start	3439	End	7116
Name	OJ000150_21.0124.C23.o3.gs	Method	GENSCAN
Start	6073	End	7101
GI	none	Score	.77
Exons	6073..7101		

Seq. No.	27299	Seq. ID	OJ000150_21.0124.C24
Gene No.	56528	Strand	+
Start	1119	End	1536
Name	OJ000150_21.0124.C24.o4.gp	Method	AAT/GAP
Start	1119	End	1536
GI	LIB3431-028-P1-N1-A10	Score	816
Exons	1119..1536		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	27299	Seq. ID	OJ000150_21.0124.C24
Gene No.	56529	Strand	-
Start	1	End	2457
Name	OJ000150_21.0124.C24.o1.np	Method	AAT/NAP
Start	1	End	2005
GI	1167523	Score	83
Exons	1..134, 1919..2005		
GI Descrip.	(D83003) ORF(AA 1-1338) [Nicotiana tabacum]		

Seq. No.	27299	Seq. ID	OJ000150_21.0124.C24
Gene No.	56529	Strand	-
Start	1	End	2457
Name	OJ000150_21.0124.C24.o1.gs	Method	GENSCAN
Start	79	End	2396
GI	none	Score	.81
Exons	79..286, 1195..2396		

Seq. No.	27299	Seq. ID	OJ000150_21.0124.C24
Gene No.	56529	Strand	-
Start	1	End	2457
Name	OJ000150_21.0124.C24.o1.gp	Method	AAT/GAP
Start	259	End	2457
GI	342 1.R1084	Score	3406
Exons	259..765, 875..972, 1055..1074, 1110..2457		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	27299	Seq. ID	OJ000150_21.0124.C24
Gene No.	56529	Strand	-
Start	1	End	2457
Name	OJ000150_21.0124.C24.o1.tw	Method	TBLASTX:Wheat
Start	1230	End	2453

GI	none	Score	52
Exons	1230..1322, 1231..1296, 1311..1391, 1396..1476, 1404..1544, 1405..1545, 1492..1587, 1524..1583, 1590..1634, 1595..1630, 1629..2081, 1644..1961, 1645..2451, 2102..2221, 2127..2453		

Seq. No.	27299	Seq. ID	OJ000150_21.0124.C24
Gene No.	56529	Strand	-
Start	1	End	2457
Name	OJ000150_21.0124.C24.o2.np	Method	AAT/NAP
Start	1714	End	2457
GI	6742729	Score	1139
Exons	1714..2457		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	27299	Seq. ID	OJ000150_21.0124.C24
Gene No.	56529	Strand	-
Start	1	End	2457
Name	OJ000150_21.0124.C24.o1.tc	Method	TBLASTX:Cress
Start	1812	End	2263
GI	none	Score	92
Exons	1812..1961, 1812..2081, 1816..2259, 2081..2263, 2102..2248, 2127..2255		

Seq. No.	27299	Seq. ID	OJ000150_21.0124.C24
Gene No.	56529	Strand	-
Start	1	End	2457
Name	OJ000150_21.0124.C24.o1.tm	Method	TBLASTX:Maize
Start	2190	End	2453
GI	none	Score	81
Exons	2190..2453, 2218..2301		

Seq. No.	27300	Seq. ID	OJ000150_21.0124.C25
Gene No.	56530	Strand	-
Start	1	End	694
Name	OJ000150_21.0124.C25.o1.np	Method	AAT/NAP
Start	1	End	694
GI	4680203	Score	266
Exons	1..694		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	27301	Seq. ID	OJ000150_21.0124.C26
Gene No.	56531	Strand	+
Start	852	End	1767
Name	OJ000150_21.0124.C26.o1.gs	Method	GENSCAN
Start	852	End	1767
GI	none	Score	.8
Exons	852..1256, 1369..1767		

Seq. No.	27302	Seq. ID	OJ000150_21.0124.C27
Gene No.	56532	Strand	+
Start	100	End	4164
Name	OJ000150_21.0124.C27.o1.gs	Method	GENSCAN
Start	100	End	4164
GI	none	Score	.65
Exons	100..458, 545..706, 1077..1310, 1586..1704, 2028..2426, 2504..2674, 2965..3037, 3784..4164		

Seq. No.	27302	Seq. ID	OJ000150_21.0124.C27
Gene No.	56532	Strand	+
Start	100	End	4164
Name	OJ000150_21.0124.C27.o2.np	Method	AAT/NAP
Start	3682	End	4140
GI	4335714	Score	186
Exons	3682..4140		
GI Descrip.	(AC006248) putative glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	27302	Seq. ID	OJ000150_21.0124.C27
Gene No.	56533	Strand	-
Start	873	End	4253
Name	OJ000150_21.0124.C27.o1.np	Method	AAT/NAP
Start	873	End	4253
GI	5042454	Score	73
Exons	873..926, 4233..4253		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	27303	Seq. ID	OJ000150_21.0124.C28
Gene No.	56534	Strand	+
Start	1	End	3691
Name	OJ000150_21.0124.C28.o1.np	Method	AAT/NAP
Start	1	End	3691
GI	5042454	Score	161
Exons	1..71, 3105..3278, 3638..3691		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	27303	Seq. ID	OJ000150_21.0124.C28
Gene No.	56534	Strand	+
Start	1	End	3691
Name	OJ000150_21.0124.C28.o1.gp	Method	AAT/GAP
Start	462	End	827
GI	4716752	Score	459
Exons	462..827		

Seq. No.	27303	Seq. ID	OJ000150_21.0124.C28
Gene No.	56534	Strand	+
Start	1	End	3691
Name	OJ000150_21.0124.C28.o1.tm	Method	TBLASTX:Maize
Start	1382	End	2079
GI	none	Score	46
Exons	1382..1513, 1382..1474, 1391..1516, 1447..1482, 1506..1625, 1509..1637, 1510..1629, 1518..1631, 1524..1646, 1525..1662, 1531..1653, 1552..1635, 1554..1622, 1555..1638, 1661..1783, 1678..1800, 1686..1784, 1687..1800, 1693..1794, 1694..1789, 1694..1801, 1694..1801, 1709..1786, 1771..1791, 1808..1846, 1814..1888, 1828..1869, 1888..2079, 1897..1995, 1901..1984, 1901..2023, 1903..2046, 1911..2021		

Seq. No.	27303	Seq. ID	OJ000150_21.0124.C28
Gene No.	56534	Strand	+
Start	1	End	3691
Name	OJ000150_21.0124.C28.o2.gp	Method	AAT/GAP
Start	2443	End	2545
GI	LIB3477-003-P1-K1-E9	Score	142
Exons	2443..2545		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY		

S 1 PRECURSOR (ORY SAT) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	27304	Seq. ID	OJ000150_21.0124.C29
Gene No.	56535	Strand	+
Start	1	End	461
Name	OJ000150_21.0124.C29.o1.np	Method	AAT/NAP
Start	1	End	461
GI	5042454	Score	104
Exons	1..30, 236..461		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	27305	Seq. ID	OJ000150_21.0124.C31
Gene No.	56536	Strand	+
Start	6	End	575
Name	OJ000150_21.0124.C31.o1.gs	Method	GENSCAN
Start	6	End	575
GI	none	Score	.94
Exons	6..11, 365..452, 483..575		

Seq. No.	27306	Seq. ID	OJ000150_21.0124.C32
Gene No.	56537	Strand	+
Start	102	End	482
Name	OJ000150_21.0124.C32.o1.gs	Method	GENSCAN
Start	102	End	482
GI	none	Score	.82
Exons	102..159, 202..482		

Seq. No.	27306	Seq. ID	OJ000150_21.0124.C32
Gene No.	56538	Strand	-
Start	2679	End	3577
Name	OJ000150_21.0124.C32.o2.gs	Method	GENSCAN
Start	2679	End	3577
GI	none	Score	.6
Exons	2679..2760, 2795..2961, 3497..3577		

Seq. No.	27307	Seq. ID	OJ000150_21.0124.C34
Gene No.	56539	Strand	+
Start	426	End	538
Name	OJ000150_21.0124.C34.o1.gs	Method	GENSCAN
Start	426	End	538
GI	none	Score	.97
Exons	426..538		

Seq. No.	27308	Seq. ID	OJ000150_21.0124.C35
Gene No.	56540	Strand	-
Start	146	End	233
Name	OJ000150_21.0124.C35.o1.gs	Method	GENSCAN
Start	146	End	233
GI	none	Score	.58
Exons	146..233		

Seq. No.	27309	Seq. ID	OJ000150_21.0124.C41
Gene No.	56541	Strand	+
Start	50	End	220
Name	OJ000150_21.0124.C41.o1.gs	Method	GENSCAN
Start	50	End	220

GI	none	Score	.92
Exons	50..220		
Seq. No.	27310	Seq. ID	OJ000150_21.0124.C43
Gene No.	56542	Strand	+
Start	169	End	524
Name	OJ000150_21.0124.C43.ol.gs	Method	GENSCAN
Start	169	End	524
GI	none	Score	.65
Exons	169..328, 467..524		
Seq. No.	27311	Seq. ID	OJ000150_21.0124.C44
Gene No.	56543	Strand	-
Start	349	End	465
Name	OJ000150_21.0124.C44.ol.gs	Method	GENSCAN
Start	349	End	465
GI	none	Score	.44
Exons	349..465		
Seq. No.	27312	Seq. ID	OJ000150_21.0124.C46
Gene No.	56544	Strand	-
Start	160	End	540
Name	OJ000150_21.0124.C46.ol.gs	Method	GENSCAN
Start	160	End	540
GI	none	Score	.77
Exons	160..440, 483..540		
Seq. No.	27313	Seq. ID	OJ000150_21.0124.C47
Gene No.	56545	Strand	+
Start	234	End	560
Name	OJ000150_21.0124.C47.ol.gs	Method	GENSCAN
Start	234	End	560
GI	none	Score	.97
Exons	234..560		
Seq. No.	27314	Seq. ID	OJ000150_21.0124.C48
Gene No.	56546	Strand	-
Start	35	End	91
Name	OJ000150_21.0124.C48.ol.gp	Method	AAT/GAP
Start	35	End	91
GI	LIB3477-003-P1-K1-E9	Score	60
Exons	35..91		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1-PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	27315	Seq. ID	OJ000150_21.0124.C49
Gene No.	56547	Strand	+
Start	253	End	306
Name	OJ000150_21.0124.C49.ol.np	Method	AAT/NAP
Start	253	End	306
GI	5042454	Score	73
Exons	253..306		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	27315	Seq. ID	OJ000150_21.0124.C49
Gene No.	56548	Strand	+

Start	362	End	851
Name	OJ000150_21.0124.C49.o2.np	Method	AAT/NAP
Start	362	End	851
GI	5042454	Score	439
Exons	362..461, 515..851		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	27316	Seq. ID	OJ000150_21.0124.C54
Gene No.	56549	Strand	-
Start	1	End	721
Name	OJ000150_21.0124.C54.o1.np	Method	AAT/NAP
Start	1	End	721
GI	6498441	Score	969
Exons	1..721		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	27316	Seq. ID	OJ000150_21.0124.C54
Gene No.	56549	Strand	-
Start	1	End	721
Name	OJ000150_21.0124.C54.o1.gs	Method	GENSCAN
Start	68	End	697
GI	none	Score	.94
Exons	68..697		

Seq. No.	27316	Seq. ID	OJ000150_21.0124.C54
Gene No.	56549	Strand	-
Start	1	End	721
Name	OJ000150_21.0124.C54.o1.tw	Method	TBLASTX:Wheat
Start	251	End	574
GI	none	Score	67
Exons	251..574, 387..572		

Seq. No.	27317	Seq. ID	OJ000150_21.0124.C58
Gene No.	56550	Strand	+
Start	76	End	303
Name	OJ000150_21.0124.C58.o1.gs	Method	GENSCAN
Start	76	End	303
GI	none	Score	.81
Exons	76..303		

Seq. No.	27318	Seq. ID	OJ000150_21.0124.C59
Gene No.	56551	Strand	+
Start	181	End	990
Name	OJ000150_21.0124.C59.o1.gs	Method	GENSCAN
Start	181	End	990
GI	none	Score	.76
Exons	181..289, 929..990		

Seq. No.	27318	Seq. ID	OJ000150_21.0124.C59
Gene No.	56551	Strand	+
Start	181	End	990
Name	OJ000150_21.0124.C59.o1.gp	Method	AAT/GAP
Start	591	End	968
GI	2309880	Score	477
Exons	591..968		

GI Descrip. 4521194/dbj|AB013613.1|AB013613 3.0e-60 Oryza sativa DNA,  
centromere sequence RCB11

Seq. No.	27319	Seq. ID	OJ000150_21.0124.C61
Gene No.	56552	Strand	+
Start	66	End	451
Name	OJ000150_21.0124.C61.o1.gs	Method	GENSCAN
Start	66	End	451
GI	none	Score	.78
Exons	66..451		

Seq. No.	27319	Seq. ID	OJ000150_21.0124.C61
Gene No.	56553	Strand	-
Start	790	End	1104
Name	OJ000150_21.0124.C61.o2.gs	Method	GENSCAN
Start	790	End	1104
GI	none	Score	.41
Exons	790..1104		

Seq. No.	27320	Seq. ID	OJ000150_21.0124.C62
Gene No.	56554	Strand	-
Start	7	End	521
Name	OJ000150_21.0124.C62.o1.gs	Method	GENSCAN
Start	7	End	521
GI	none	Score	.68
Exons	7..171, 437..521		

Seq. No.	27321	Seq. ID	OJ000150_21.0124.C63
Gene No.	56555	Strand	+
Start	64	End	198
Name	OJ000150_21.0124.C63.o1.gs	Method	GENSCAN
Start	64	End	198
GI	none	Score	.83
Exons	64..198		

Seq. No.	27322	Seq. ID	OJ000150_21.0124.C65
Gene No.	56556	Strand	-
Start	233	End	553
Name	OJ000150_21.0124.C65.o1.gs	Method	GENSCAN
Start	233	End	553
GI	none	Score	.83
Exons	233..553		

Seq. No.	27323	Seq. ID	OJ000150_21.0124.C66
Gene No.	56557	Strand	-
Start	1	End	532
Name	OJ000150_21.0124.C66.o1.np	Method	AAT/NAP
Start	1	End	532
GI	6630696	Score	702
Exons	1..532		

GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No.	27323	Seq. ID	OJ000150_21.0124.C66
Gene No.	56557	Strand	-
Start	1	End	532

Name	OJ000150_21.0124.C66.o1.gs	Method	GENSCAN
Start	114	End	518
GI	none	Score	.55
Exons	114..518		
Seq. No.	27323	Seq. ID	OJ000150_21.0124.C66
Gene No.	56557	Strand	-
Start	1	End	532
Name	OJ000150_21.0124.C66.o1.tm	Method	TBLASTX:Maize
Start	333	End	528
GI	none	Score	124
Exons	333..527, 334..528		
Seq. No.	27323	Seq. ID	OJ000150_21.0124.C66
Gene No.	56557	Strand	-
Start	1	End	532
Name	OJ000150_21.0124.C66.o1.tw	Method	TBLASTX:Wheat
Start	392	End	530
GI	none	Score	131
Exons	392..523, 392..523, 393..530, 412..528		
Seq. No.	27324	Seq. ID	OJ000150_21.0124.C67
Gene No.	56558	Strand	-
Start	223	End	1053
Name	OJ000150_21.0124.C67.o1.gs	Method	GENSCAN
Start	223	End	1053
GI	none	Score	.57
Exons	223..245, 969..1053		
Seq. No.	27325	Seq. ID	OJ000150_21.0124.C68
Gene No.	56559	Strand	-
Start	298	End	359
Name	OJ000150_21.0124.C68.o1.gs	Method	GENSCAN
Start	298	End	359
GI	none	Score	.52
Exons	298..359		
Seq. No.	27325	Seq. ID	OJ000150_21.0124.C68
Gene No.	56560	Strand	-
Start	320	End	546
Name	OJ000150_21.0124.C68.o1.gp	Method	AAT/GAP
Start	320	End	546
GI	2309880	Score	290
Exons	320..546		
GI Descrip.	4521194/dbj AB013613.1 AB013613 3.0e-60 Oryza sativa DNA, centromere sequence RCB11		
Seq. No.	27326	Seq. ID	OJ000150_21.0124.C70
Gene No.	56561	Strand	-
Start	108	End	661
Name	OJ000150_21.0124.C70.o1.gs	Method	GENSCAN
Start	108	End	661
GI	none	Score	.74
Exons	108..227, 317..353, 432..661		
Seq. No.	27327	Seq. ID	OJ000150_21.0124.C73
Gene No.	56562	Strand	-



Start	1	End	1799
Name	OJ000150_21.0124.C73.o1.np	Method	AAT/NAP
Start	1	End	1799
GI	4680203	Score	1034
Exons	1..1432, 1751..1799		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	27327	Seq. ID	OJ000150_21.0124.C73
Gene No.	56562	Strand	-
Start	1	End	1799
Name	OJ000150_21.0124.C73.o1.tm	Method	TBLASTX:Maize
Start	4	End	444
GI	none	Score	69
Exons	4..219, 30..194, 201..443, 202..444		

Seq. No.	27327	Seq. ID	OJ000150_21.0124.C73
Gene No.	56562	Strand	-
Start	1	End	1799
Name	OJ000150_21.0124.C73.o2.tw	Method	TBLASTX:Wheat
Start	39	End	383
GI	none	Score	73
Exons	39..194, 225..332, 238..333, 240..335, 342..383		

Seq. No.	27327	Seq. ID	OJ000150_21.0124.C73
Gene No.	56562	Strand	-
Start	1	End	1799
Name	OJ000150_21.0124.C73.o1.gs	Method	GENSCAN
Start	41	End	1430
GI	none	Score	.46
Exons	41..769, 890..1430		

Seq. No.	27327	Seq. ID	OJ000150_21.0124.C73
Gene No.	56562	Strand	-
Start	1	End	1799
Name	OJ000150_21.0124.C73.o1.tc	Method	TBLASTX:Cress
Start	288	End	638
GI	none	Score	91
Exons	288..638, 289..441, 481..630		

Seq. No.	27327	Seq. ID	OJ000150_21.0124.C73
Gene No.	56562	Strand	-
Start	1	End	1799
Name	OJ000150_21.0124.C73.o2.ts	Method	TBLASTX:Soybean
Start	369	End	638
GI	none	Score	131
Exons	369..638, 370..624		

Seq. No.	27327	Seq. ID	OJ000150_21.0124.C73
Gene No.	56562	Strand	-
Start	1	End	1799
Name	OJ000150_21.0124.C73.o1.tw	Method	TBLASTX:Wheat
Start	384	End	1007
GI	none	Score	87
Exons	384..509, 516..635, 529..618, 648..1007, 649..840, 931..975		

Seq. No.	27327	Seq. ID	OJ000150_21.0124.C73
Gene No.	56562	Strand	-

Start	1	End	1799
Name	OJ000150_21.0124.C73.o1.ts	Method	TBLASTX:Soybean
Start	655	End	992
GI	none	Score	169
Exons	655..939, 657..938, 782..943, 943..987, 945..992		

Seq. No.	27328	Seq. ID	OJ000150_21.0124.C74
Gene No.	56563	Strand	-
Start	467	End	2202
Name	OJ000150_21.0124.C74.o1.np	Method	AAT/NAP
Start	467	End	2202
GI	4218003	Score	286
Exons	467..1349, 2177..2202		
GI Descrip.	(AC006135) putative flavonol 3-O-glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	27328	Seq. ID	OJ000150_21.0124.C74
Gene No.	56563	Strand	-
Start	467	End	2202
Name	OJ000150_21.0124.C74.o1.gs	Method	GENSCAN
Start	587	End	1928
GI	none	Score	.52
Exons	587..772, 840..1928		

Seq. No.	27328	Seq. ID	OJ000150_21.0124.C74
Gene No.	56563	Strand	-
Start	467	End	2202
Name	OJ000150_21.0124.C74.o1.tc	Method	TBLASTX:Cress
Start	695	End	1190
GI	none	Score	63
Exons	695..808, 726..809, 810..878, 814..879, 957..1106, 1134..1190		

Seq. No.	27328	Seq. ID	OJ000150_21.0124.C74
Gene No.	56563	Strand	-
Start	467	End	2202
Name	OJ000150_21.0124.C74.o2.ts	Method	TBLASTX:Soybean
Start	695	End	1106
GI	none	Score	74
Exons	695..808, 711..809, 810..917, 817..942, 972..1106		

Seq. No.	27328	Seq. ID	OJ000150_21.0124.C74
Gene No.	56563	Strand	-
Start	467	End	2202
Name	OJ000150_21.0124.C74.o1.tm	Method	TBLASTX:Maize
Start	695	End	1190
GI	none	Score	95
Exons	695..808, 696..809, 809..856, 810..878, 888..914, 963..1103, 1164..1190		

Seq. No.	27328	Seq. ID	OJ000150_21.0124.C74
Gene No.	56563	Strand	-
Start	467	End	2202
Name	OJ000150_21.0124.C74.o1.ts	Method	TBLASTX:Soybean
Start	1164	End	1905
GI	none	Score	64
Exons	1164..1361, 1398..1556, 1629..1772, 1758..1904, 1774..1905		

Seq. No.	27329	Seq. ID	OJ000150_21.0124.C75
Gene No.	56564	Strand	+
Start	75	End	956
Name	OJ000150_21.0124.C75.o1.gs	Method	GENSCAN
Start	75	End	956
GI	none	Score	.66
Exons	75..131, 544..680, 773..956		
Seq. No.	27329	Seq. ID	OJ000150_21.0124.C75
Gene No.	56565	Strand	+
Start	1747	End	2584
Name	OJ000150_21.0124.C75.o1.gp	Method	AAT/GAP
Start	1747	End	2584
GI	533_1.R1084	Score	150
Exons	1747..1786, 1809..1905, 2548..2584		
GI Descrip.	'113172/sp P15543 ACP3_HORVU 9.0e-52 ACYL CARRIER PROTEIN III PRECURSOR (ACP III) >gi_100561_pir_S17928 acyl carrier protéin 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum vulgare]'		
Seq. No.	27329	Seq. ID	OJ000150_21.0124.C75
Gene No.	56566	Strand	+
Start	7327	End	7993
Name	OJ000150_21.0124.C75.o3.gs	Method	GENSCAN
Start	7327	End	7993
GI	none	Score	.85
Exons	7327..7352, 7762..7993		
Seq. No.	27329	Seq. ID	OJ000150_21.0124.C75
Gene No.	56567	Strand	-
Start	5379	End	6643
Name	OJ000150_21.0124.C75.o2.gs	Method	GENSCAN
Start	5379	End	6643
GI	none	Score	.55
Exons	5379..6038, 6313..6526, 6642..6643		
Seq. No.	27329	Seq. ID	OJ000150_21.0124.C75
Gene No.	56568	Strand	-
Start	10702	End	11576
Name	OJ000150_21.0124.C75.o2.tm	Method	TBLASTX:Maize
Start	10694	End	11125
GI	none	Score	321
Exons	10694..11125, 10717..11124		
Seq. No.	27329	Seq. ID	OJ000150_21.0124.C75
Gene No.	56568	Strand	-
Start	10702	End	11576
Name	OJ000150_21.0124.C75.o4.gs	Method	GENSCAN
Start	10702	End	11556
GI	none	Score	.97
Exons	10702..11556		
Seq. No.	27329	Seq. ID	OJ000150_21.0124.C75
Gene No.	56568	Strand	-
Start	10702	End	11576
Name	OJ000150_21.0124.C75.o1.np	Method	AAT/NAP
Start	10705	End	11576

GI 4914330 Score 1037  
 Exons 10705..11576  
 GI Descrip. (AC005489) F14N23.16 [Arabidopsis thaliana]

Seq. No. 27329 Seq. ID OJ000150\_21.0124.C75  
 Gene No. 56568 Strand -  
 Start 10702 End 11576  
 Name OJ000150\_21.0124.C75.o2.ts Method TBLASTX:Soybean  
 Start 10720 End 11223  
 GI none Score 52  
 Exons 10720..10812, 10730..10777, 10816..10989, 10844..10936,  
 10993..11223, 11033..11140

Seq. No. 27329 Seq. ID OJ000150\_21.0124.C75  
 Gene No. 56568 Strand -  
 Start 10702 End 11576  
 Name OJ000150\_21.0124.C75.o1.tw Method TBLASTX:Wheat  
 Start 10813 End 11019  
 GI none Score 185  
 Exons 10813..11019, 10817..11017

Seq. No. 27329 Seq. ID OJ000150\_21.0124.C75  
 Gene No. 56568 Strand -  
 Start 10702 End 11576  
 Name OJ000150\_21.0124.C75.o1.tc Method TBLASTX:Cress  
 Start 10906 End 11382  
 GI none Score 69  
 Exons 10906..10992, 10990..11382, 11033..11152, 11219..11254

Seq. No. 27329 Seq. ID OJ000150\_21.0124.C75  
 Gene No. 56568 Strand -  
 Start 10702 End 11576  
 Name OJ000150\_21.0124.C75.o1.tm Method TBLASTX:Maize  
 Start 11131 End 11575  
 GI none Score 52  
 Exons 11131..11172, 11132..11173, 11173..11235, 11174..11233,  
 11237..11575, 11239..11574

Seq. No. 27329 Seq. ID OJ000150\_21.0124.C75  
 Gene No. 56568 Strand -  
 Start 10702 End 11576  
 Name OJ000150\_21.0124.C75.o1.ts Method TBLASTX:Soybean  
 Start 11228 End 11574  
 GI none Score 190  
 Exons 11228..11563, 11230..11574

Seq. No. 27330 Seq. ID OJ000150\_21.0124.C76  
 Gene No. 56569 Strand -  
 Start 1375 End 2450  
 Name OJ000150\_21.0124.C76.o2.gs Method GENSCAN  
 Start 1375 End 2450  
 GI none Score .46  
 Exons 1375..1444, 2422..2450

Seq. No. 27331 Seq. ID OJ000150\_21.0124.C77  
 Gene No. 56570 Strand -  
 Start 1756 End 3337

Name	OJ000150_21.0124.C77.o2.gs	Method	GENSCAN
Start	1756	End	3337
GI	none	Score	.61
Exons	1756..1815, 2110..2219, 2800..2962, 3250..3337		

Seq. No.	27332	Seq. ID	OJ000150_21.0124.C78
Gene No.	56571	Strand	+
Start	1504	End	3373
Name	OJ000150_21.0124.C78.o1.gs	Method	GENSCAN
Start	1504	End	3373
GI	none	Score	.7
Exons	1504..1587, 2491..3165, 3215..3373		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o1.gp	Method	AAT/GAP
Start	121	End	709
GI	2310235	Score	301
Exons	121..158, 570..709		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o2.gp	Method	AAT/GAP
Start	574	End	2948
GI	342_1.R1084	Score	3966
Exons	574..2948		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o4.tw	Method	TBLASTX:Wheat
Start	921	End	1277
GI	none	Score	103
Exons	921..1028, 1011..1262, 1019..1261, 1020..1277, 1021..1272		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o1.ts	Method	TBLASTX:Soybean
Start	1193	End	1622
GI	none	Score	102
Exons	1193..1276, 1194..1268, 1269..1331, 1326..1622, 1380..1604		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o1.tc	Method	TBLASTX:Cress
Start	1355	End	1703
GI	none	Score	318
Exons	1355..1507, 1362..1703, 1547..1684		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o2.tm	Method	TBLASTX:Maize
Start	1362	End	1750
GI	none	Score	67
Exons	1362..1451, 1467..1748, 1490..1750		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o1.np	Method	AAT/NAP
Start	1383	End	3013
GI	6742729	Score	2436
Exons	1383..3013		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o2.tw	Method	TBLASTX:Wheat
Start	1491	End	1959
GI	none	Score	72
Exons	1491..1544, 1499..1543, 1545..1649, 1556..1645, 1653..1751, 1658..1750, 1731..1850, 1754..1849, 1871..1954, 1879..1959		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o3.tw	Method	TBLASTX:Wheat
Start	2098	End	2508
GI	none	Score	71
Exons	2098..2145, 2099..2161, 2167..2349, 2171..2389, 2417..2506, 2422..2508, 2423..2506		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o1.tw	Method	TBLASTX:Wheat
Start	2509	End	2948
GI	none	Score	556
Exons	2509..2946, 2510..2947, 2517..2948		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o1.tm	Method	TBLASTX:Maize
Start	2552	End	2866
GI	none	Score	314
Exons	2552..2866, 2563..2724, 2755..2838		

Seq. No.	27333	Seq. ID	OJ000150_21.0124.C79
Gene No.	56572	Strand	+
Start	121	End	3013
Name	OJ000150_21.0124.C79.o2.tc	Method	TBLASTX:Cress
Start	2797	End	2947
GI	none	Score	179

Exons 2797..2946, 2801..2947

Seq. No.	27334	Seq. ID	OJ000150_21.0124.C80
Gene No.	56573	Strand	+
Start	564	End	806
Name	OJ000150_21.0124.C80.o1.gs	Method	GENSCAN
Start	564	End	806
GI	none	Score	.62
Exons	564..806		

Seq. No.	27335	Seq. ID	OJ000150_21.0124.C81
Gene No.	56574	Strand	-
Start	1	End	823
Name	OJ000150_21.0124.C81.o1.np	Method	AAT/NAP
Start	1	End	823
GI	100484	Score	599
Exons	1..823		
GI Descrip.	hypothetical protein - garden snapdragon		

Seq. No.	27335	Seq. ID	OJ000150_21.0124.C81
Gene No.	56574	Strand	-
Start	1	End	823
Name	OJ000150_21.0124.C81.o1.tm	Method	TBLASTX:Maize
Start	2	End	350
GI	none	Score	106
Exons	2..283, 9..284, 291..350, 296..349		

Seq. No.	27335	Seq. ID	OJ000150_21.0124.C81
Gene No.	56574	Strand	-
Start	1	End	823
Name	OJ000150_21.0124.C81.o1.tw	Method	TBLASTX:Wheat
Start	2	End	338
GI	none	Score	180
Exons	2..337, 9..338		

Seq. No.	27335	Seq. ID	OJ000150_21.0124.C81
Gene No.	56574	Strand	-
Start	1	End	823
Name	OJ000150_21.0124.C81.o2.tw	Method	TBLASTX:Wheat
Start	348	End	649
GI	none	Score	40
Exons	348..425, 452..535, 483..524, 536..649, 566..637		

Seq. No.	27335	Seq. ID	OJ000150_21.0124.C81
Gene No.	56574	Strand	-
Start	1	End	823
Name	OJ000150_21.0124.C81.o2.tm	Method	TBLASTX:Maize
Start	461	End	649
GI	none	Score	73
Exons	461..649, 462..581		

Seq. No.	27335	Seq. ID	OJ000150_21.0124.C81
Gene No.	56574	Strand	-
Start	1	End	823
Name	OJ000150_21.0124.C81.o1.gs	Method	GENSCAN
Start	602	End	723
GI	none	Score	.93

Exons 602..723

Seq. No.	27336	Seq. ID	OJ000150_21.0124.C85
Gene No.	56575	Strand	-
Start	68	End	441
Name	OJ000150_21.0124.C85.o1.gp	Method	AAT/GAP
Start	68	End	441
GI	4107129	Score	572
Exons	68..441		
GI Descrip.	1330273/dbj D85055 RICSINE11	2.0e-18	Rice retroposon p-SINE1-r31 gene

Seq. No.	27337	Seq. ID	OJ000150_21.0124.C86
Gene No.	56576	Strand	+
Start	263	End	496
Name	OJ000150_21.0124.C86.o1.gs	Method	GENSCAN
Start	263	End	496
GI	none	Score	.57
Exons	263..496		

Seq. No.	27338	Seq. ID	OJ000150_21.0124.C87
Gene No.	56577	Strand	+
Start	1	End	716
Name	OJ000150_21.0124.C87.o1.np	Method	AAT/NAP
Start	1	End	716
GI	6907089	Score	990
Exons	1..716		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27338	Seq. ID	OJ000150_21.0124.C87
Gene No.	56577	Strand	+
Start	1	End	716
Name	OJ000150_21.0124.C87.o1.gs	Method	GENSCAN
Start	72	End	644
GI	none	Score	.54
Exons	72..644		

Seq. No.	27339	Seq. ID	OJ000150_21.0124.C88
Gene No.	56578	Strand	+
Start	306	End	380
Name	OJ000150_21.0124.C88.o1.gs	Method	GENSCAN
Start	306	End	380
GI	none	Score	.7
Exons	306..380		

Seq. No.	27340	Seq. ID	OJ000150_21.0124.C92
Gene No.	56579	Strand	+
Start	1	End	572
Name	OJ000150_21.0124.C92.o1.np	Method	AAT/NAP
Start	1	End	572
GI	4680204	Score	116
Exons	1..284, 359..572		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	27340	Seq. ID	OJ000150_21.0124.C92
Gene No.	56579	Strand	+
Start	1	End	572



Name	OJ000150_21.0124.C92.ol.gs	Method	GENSCAN
Start	33	End	500
GI	none	Score	.7
Exons	33..119, 165..284, 359..500		
Seq. No.	27341	Seq. ID	OJ000150_21.0124.C94
Gene No.	56580	Strand	+
Start	91	End	382
Name	OJ000150_21.0124.C94.ol.gs	Method	GENSCAN
Start	91	End	382
GI	none	Score	.7
Exons	91..243, 347..382		
Seq. No.	27342	Seq. ID	OJ000150_21.0124.C99
Gene No.	56581	Strand	+
Start	58	End	233
Name	OJ000150_21.0124.C99.ol.gs	Method	GENSCAN
Start	58	End	233
GI	none	Score	.56
Exons	58..233		
Seq. No.	27343	Seq. ID	OJ000150_21.0124.C108
Gene No.	56582	Strand	-
Start	742	End	1118
Name	OJ000150_21.0124.C108.ol.gs	Method	GENSCAN
Start	742	End	1074
GI	none	Score	.96
Exons	742..1074		
Seq. No.	27343	Seq. ID	OJ000150_21.0124.C108
Gene No.	56582	Strand	-
Start	742	End	1118
Name	OJ000150_21.0124.C108.ol.np	Method	AAT/NAP
Start	745	End	1118
GI	6907089	Score	558
Exons	745..1118		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	27344	Seq. ID	OJ000150_21.0124.C109
Gene No.	56583	Strand	+
Start	1	End	814
Name	OJ000150_21.0124.C109.ol.np	Method	AAT/NAP
Start	1	End	814
GI	6498441	Score	708
Exons	1..814		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	27344	Seq. ID	OJ000150_21.0124.C109
Gene No.	56583	Strand	+
Start	1	End	814
Name	OJ000150_21.0124.C109.ol.gs	Method	GENSCAN
Start	187	End	606
GI	none	Score	.71
Exons	187..606		

Seq. No.	27345	Seq. ID	OJ000150_21.0124.C111
Gene No.	56584	Strand	+
Start	179	End	585
Name	OJ000150_21.0124.C111.ol.gp	Method	AAT/GAP
Start	179	End	585
GI	4107129	Score	502
Exons	179..323, 404..585		
GI Descrip.	1330273/dbj D85055 RICSINE11	2.0e-18. Rice retroposon. p-SINE1-r31 gene	

Seq. No.	27346	Seq. ID	OJ000150_21.0124.C117
Gene No.	56585	Strand	+
Start	215	End	586
Name	OJ000150_21.0124.C117.ol.gs	Method	GENSCAN
Start	215	End	586
GI	none	Score	.51
Exons	215..444, 523..586		

Seq. No.	27347	Seq. ID	OJ000150_21.0124.C120
Gene No.	56586	Strand	-
Start	1	End	438
Name	OJ000150_21.0124.C120.ol.np	Method	AAT/NAP
Start	1	End	438
GI	100484	Score	234
Exons	1..438		
GI Descrip.	hypothetical protein - garden snapdragon		

Seq. No.	27347	Seq. ID	OJ000150_21.0124.C120
Gene No.	56586	Strand	-
Start	1	End	438
Name	OJ000150_21.0124.C120.ol.tm	Method	TBLASTX:Maize
Start	102	End	290
GI	none	Score	68
Exons	102..290, 103..222		

Seq. No.	27347	Seq. ID	OJ000150_21.0124.C120
Gene No.	56586	Strand	-
Start	1	End	438
Name	OJ000150_21.0124.C120.ol.gs	Method	GENSCAN
Start	243	End	364
GI	none	Score	.99
Exons	243..364		

Seq. No.	27348	Seq. ID	OJ000150_21.0124.C122
Gene No.	56587	Strand	+
Start	1	End	616
Name	OJ000150_21.0124.C122.ol.np	Method	AAT/NAP
Start	1	End	616
GI	100484	Score	288
Exons	1..23, 144..616		
GI Descrip.	hypothetical protein - garden snapdragon		

Seq. No.	27348	Seq. ID	OJ000150_21.0124.C122
Gene No.	56587	Strand	+
Start	1	End	616
Name	OJ000150_21.0124.C122.ol.gs	Method	GENSCAN
Start	207	End	328

GI	none	Score	.42
Exons	207..328		
Seq. No.	27348	Seq. ID	OJ000150_21.0124.C122
Gene No.	56587	Strand	+
Start	1	End	616
Name	OJ000150_21.0124.C122.o1.tm	Method	TBLASTX:Maize
Start	284	End	469
GI	none	Score	211
Exons	284..469, 349..468		
Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56588	Strand	+
Start	1807	End	2061
Name	OJ000150_20.0124.C2.o1.gp	Method	AAT/GAP
Start	1807	End	2061
GI	427569	Score	490
Exons	1807..2061		
Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56589	Strand	+
Start	2652	End	2855
Name	OJ000150_20.0124.C2.o2.gs	Method	GENSCAN
Start	2652	End	2855
GI	none	Score	.64
Exons	2652..2790, 2839..2855		
Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o1.gs	Method	GENSCAN
Start	379	End	2043
GI	none	Score	.77
Exons	379..2043		
Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o1.np	Method	AAT/NAP
Start	397	End	5417
GI	3461846	Score	770
Exons	397..1605, 5362..5417		
GI Descrip.	(AC005315) putative SCARECROW gene regulator [Arabidopsis thaliana]		
Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o2.ts	Method	TBLASTX:Soybean
Start	397	End	1092
GI	none	Score	67
Exons	397..465, 410..478, 556..603, 557..601, 694..873, 734..862, 994..1092		
Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456

Name	OJ000150_20.0124.C2.o2.tm	Method	TBLASTX:Maize
Start	406	End	1332
GI	none	Score	64
Exons	406..465, 407..478, 556..708, 557..601, 694..864, 734..874, 856..939, 958..993, 991..1194, 1016..1183, 1075..1188, 1195..1332		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o1.tc	Method	TBLASTX:Cress
Start	694	End	1353
GI	none	Score	119
Exons	694..864, 865..930, 994..1143, 1186..1353		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o3.tm	Method	TBLASTX:Maize
Start	1333	End	1557
GI	none	Score	62
Exons	1333..1557, 1433..1531		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o3.ts	Method	TBLASTX:Soybean
Start	1384	End	1551
GI	none	Score	76
Exons	1384..1551, 1390..1518, 1439..1525		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o3.gs	Method	GENSCAN
Start	5239	End	11456
GI	none	Score	.63
Exons	5239..5273, 5308..5528, 5740..5824, 6162..6269, 6697..7089, 8059..8242, 8378..8449, 8485..8538, 8771..8910, 9109..9139, 9250..9422, 9544..9748, 9848..10018, 10097..10237, 10847..10957, 11040..11456		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o2.np	Method	AAT/NAP
Start	5322	End	6242
GI	6498461	Score	801
Exons	5322..5645, 5740..5824, 5851..5937, 6162..6242		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa]		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o3.np	Method	AAT/NAP
Start	6770	End	7234
GI	4581120	Score	358

Exons 6770..7234  
 GI Descrip. (AC005825) hypothetical protein [Arabidopsis thaliana]

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o4.np	Method	AAT/NAP
Start	8706	End	11456
GI	2252863	Score	787
Exons	8706..8762, 8817..8910, 9057..9148, 9250..9422, 9544..9750, 9844..10018, 10094..10250, 10824..10981, 11022..11456		
GI Descrip.	(AF013294) similar to nucleolin protein [Arabidopsis thaliana]		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o1.ts	Method	TBLASTX:Soybean
Start	9056	End	11183
GI	none	Score	50
Exons	9056..9121, 9521..9658, 9564..9623, 9626..9751, 9633..9770, 9639..9767, 9838..9996, 9839..10018, 9846..10001, 10097..10237, 10119..10244, 11037..11090, 11103..11183, 11104..11181		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o1.tm	Method	TBLASTX:Maize
Start	9059	End	11211
GI	none	Score	112
Exons	9059..9142, 9060..9143, 9239..9286, 9240..9287, 9275..9385, 9302..9364, 9303..9389, 9357..9467, 9376..9471, 9524..9751, 9543..9755, 9564..9749, 9851..10006, 9861..10004, 9872..10006, 9873..10019, 9883..10020, 10080..10238, 10097..10243, 10098..10238, 10147..10242, 10846..10959, 10847..10948, 11028..11138, 11032..11211, 11037..11207, 11038..11208		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o2.gp	Method	AAT/GAP
Start	9117	End	10016
GI	20710_1.R1084	Score	1022
Exons	9117..9139, 9250..9422, 9544..9748, 9848..10016		
GI Descrip.	'2252863 3.0e-27 (AF013294) similar to nucleolin protein [Arabidopsis thaliana]'		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-
Start	379	End	11456
Name	OJ000150_20.0124.C2.o2.tc	Method	TBLASTX:Cress
Start	9710	End	10933
GI	none	Score	143
Exons	9710..9754, 9851..10003, 9873..10004, 10094..10237, 10097..10240, 10847..10933		

Seq. No.	27349	Seq. ID	OJ000150_20.0124.C2
Gene No.	56590	Strand	-

Start	379	End	11456
Name	OJ000150_20.0124.C2.o3.gp	Method	AAT/GAP
Start	10091	End	11240
GI	2280544	Score	824
Exons	10091..10237, 10847..10957, 11040..11240		
GI Descrip.	2252863 3.0e-27 (AF013294) similar to nucleolin protein [Arabidopsis thaliana]		

Seq. No.	27350	Seq. ID	OJ000150_20.0124.C3
Gene No.	56591	Strand	+
Start	1959	End	2108
Name	OJ000150_20.0124.C3.o2.gs	Method	GENSCAN
Start	1959	End	2108
GI	none	Score	.99
Exons	1959..2108		

Seq. No.	27350	Seq. ID	OJ000150_20.0124.C3
Gene No.	56592	Strand	-
Start	1	End	1915
Name	OJ000150_20.0124.C3.o1.np	Method	AAT/NAP
Start	1	End	608
GI	4049341	Score	690
Exons	1..608		
GI Descrip.	(AL034567) putative protein [Arabidopsis thaliana]		

Seq. No.	27350	Seq. ID	OJ000150_20.0124.C3
Gene No.	56592	Strand	-
Start	1	End	1915
Name	OJ000150_20.0124.C3.o1.tw	Method	TBLASTX:Wheat
Start	1	End	302
GI	none	Score	185
Exons	1..45, 3..155, 3..302, 151..300		

Seq. No.	27350	Seq. ID	OJ000150_20.0124.C3
Gene No.	56592	Strand	-
Start	1	End	1915
Name	OJ000150_20.0124.C3.o1.tm	Method	TBLASTX:Maize
Start	1	End	575
GI	none	Score	165
Exons	1..45, 3..155, 3..362, 151..567, 426..575		

Seq. No.	27350	Seq. ID	OJ000150_20.0124.C3
Gene No.	56592	Strand	-
Start	1	End	1915
Name	OJ000150_20.0124.C3.o1.tc	Method	TBLASTX:Cress
Start	120	End	575
GI	none	Score	136
Exons	120..362, 151..339, 426..575, 427..546, 441..554		

Seq. No.	27350	Seq. ID	OJ000150_20.0124.C3
Gene No.	56592	Strand	-
Start	1	End	1915
Name	OJ000150_20.0124.C3.o1.ts	Method	TBLASTX:Soybean
Start	123	End	575
GI	none	Score	172
Exons	123..149, 150..362, 151..351, 426..575, 427..546, 441..560		

Seq. No.	27350	Seq. ID	OJ000150_20.0124.C3
Gene No.	56592	Strand	-
Start	1	End	1915
Name	OJ000150_20.0124.C3.o2.tw	Method	TBLASTX:Wheat
Start	426	End	1915
GI	none	Score	133
Exons	426..575, 427..567, 1693..1770, 1859..1915		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56593	Strand	+
Start	151	End	470
Name	OJ000150_20.0124.C4.o1.gp	Method	AAT/GAP
Start	151	End	407
GI	LIB3434-014-P1-K1-D7	Score	243
Exons	151..254, 365..407		
GI Descrip.	'3861188/emb CAA15088  7.0e-18 (AJ235272) 50S RIBOSOMAL PROTEIN L24 (rplX) [Rickettsia prowazekii]'		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56593	Strand	+
Start	151	End	470
Name	OJ000150_20.0124.C4.o1.np	Method	AAT/NAP
Start	151	End	470
GI	6225984	Score	85
Exons	151..254, 365..470		
GI Descrip.	50S RIBOSOMAL PROTEIN L24 gi 3861188 emb CAA15088  (AJ235272) 50S RIBOSOMAL PROTEIN L24 (rplX) [Rickettsia prowazekii]		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56594	Strand	-
Start	2183	End	3285
Name	OJ000150_20.0124.C4.o1.tw	Method	TBLASTX:Wheat
Start	150	End	1189
GI	none	Score	173
Exons	150..257, 151..255, 151..267, 152..256, 363..497, 365..499, 366..500, 1070..1189, 1071..1151		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56594	Strand	-
Start	2183	End	3285
Name	OJ000150_20.0124.C4.o2.tm	Method	TBLASTX:Maize
Start	150	End	442
GI	none	Score	179
Exons	150..257, 151..255, 151..267, 363..440, 364..438, 365..442, 366..440		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56594	Strand	-
Start	2183	End	3285
Name	OJ000150_20.0124.C4.o2.ts	Method	TBLASTX:Soybean
Start	151	End	1151
GI	none	Score	164
Exons	151..255, 151..267, 363..494, 365..502, 366..497, 545..565, 1070..1144, 1071..1151		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56594	Strand	-

Start	2183	End	3285
Name	OJ000150_20.0124.C4.o3.tm	Method	TBLASTX:Maize
Start	2089	End	2425
GI	none	Score	85
Exons	2089..2124, 2180..2296, 2180..2317, 2297..2425		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56594	Strand	-
Start	2183	End	3285
Name	OJ000150_20.0124.C4.o2.np	Method	AAT/NAP
Start	2183	End	3205
GI	542058	Score	658
Exons	2183..3205		
GI Descrip.	HSR203J protein - common tobacco gi 444002 emb CAA54393  (X77136) HSR203J [Nicotiana tabacum]		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56594	Strand	-
Start	2183	End	3285
Name	OJ000150_20.0124.C4.o1.ts	Method	TBLASTX:Soybean
Start	2420	End	3187
GI	none	Score	53
Exons	2420..2629, 2481..2591, 2663..2722, 2664..2750, 2780..2875, 2781..2873, 2897..2983, 2949..2984, 3032..3127, 3033..3128, 3131..3187		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56594	Strand	-
Start	2183	End	3285
Name	OJ000150_20.0124.C4.o1.tm	Method	TBLASTX:Maize
Start	2669	End	3187
GI	none	Score	145
Exons	2669..2887, 2685..2903, 2889..2987, 2897..2983, 2981..3127, 3039..3128, 3131..3187		

Seq. No.	27351	Seq. ID	OJ000150_20.0124.C4
Gene No.	56594	Strand	-
Start	2183	End	3285
Name	OJ000150_20.0124.C4.o2.gp	Method	AAT/GAP
Start	2985	End	3285
GI	none	Score	598
Exons	2985..3285		

Seq. No.	27352	Seq. ID	OJ000150_20.0124.C5
Gene No.	56595	Strand	+
Start	1267	End	1288
Name	OJ000150_20.0124.C5.o1.gs	Method	GENSCAN
Start	1267	End	1288
GI	none	Score	.45
Exons	1267..1288		

Seq. No.	27352	Seq. ID	OJ000150_20.0124.C5
Gene No.	56596	Strand	-
Start	524	End	700
Name	OJ000150_20.0124.C5.o1.gp	Method	AAT/GAP
Start	524	End	700
GI	10431_1.R1084	Score	307



Exons 524..700  
 GI Descrip. '1256198/dbj|D63711|RICTNR3 4.0e-82 Rice transposon Tnr3 DNA, complete sequence'

Seq. No.	27352	Seq. ID	OJ000150_20.0124.C5
Gene No.	56597	Strand	-
Start	2115	End	2395
Name	OJ000150_20.0124.C5.o2.gp	Method	AAT/GAP
Start	2115	End	2395
GI	none	Score	380
Exons	2115..2395		

Seq. No.	27352	Seq. ID	OJ000150_20.0124.C5
Gene No.	56598	Strand	-
Start	2468	End	3564
Name	OJ000150_20.0124.C5.o2.gs	Method	GENSCAN
Start	2468	End	3555
GI	none	Score	.94
Exons	2468..3250, 3373..3555		

Seq. No.	27352	Seq. ID	OJ000150_20.0124.C5
Gene No.	56598	Strand	-
Start	2468	End	3564
Name	OJ000150_20.0124.C5.o1.np	Method	AAT/NAP
Start	2471	End	3528
GI	542058	Score	629
Exons	2471..3035, 3072..3528		
GI Descrip.	HSR203J protein - common tobacco gi 444002 emb CAA54393  (X77136) HSR203J [Nicotiana tabacum]		

Seq. No.	27352	Seq. ID	OJ000150_20.0124.C5
Gene No.	56598	Strand	-
Start	2468	End	3564
Name	OJ000150_20.0124.C5.o1.ts	Method	TBLASTX:Soybean
Start	2732	End	3516
GI	none	Score	105
Exons	2732..2905, 2763..2915, 2969..3028, 2973..2996, 3089..3184, 3101..3154, 3220..3261, 3260..3280, 3454..3516		

Seq. No.	27352	Seq. ID	OJ000150_20.0124.C5
Gene No.	56598	Strand	-
Start	2468	End	3564
Name	OJ000150_20.0124.C5.o1.tm	Method	TBLASTX:Maize
Start	2957	End	3564
GI	none	Score	61
Exons	2957..3025, 2969..3046, 3077..3196, 3078..3215, 3212..3280, 3217..3261, 3370..3447, 3454..3564		

Seq. No.	27353	Seq. ID	OJ000150_20.0124.C6
Gene No.	56599	Strand	-
Start	2875	End	5386
Name	OJ000150_20.0124.C6.o2.np	Method	AAT/NAP
Start	2875	End	5386
GI	2191178	Score	325
Exons	2875..2893, 4857..5386		
GI Descrip.	(AF007270) contains similarity to MIPP proteins [Arabidopsis thaliana]		

Seq. No.	27353	Seq. ID	OJ000150_20.0124.C6
Gene No.	56599	Strand	-
Start	2875	End	5386
Name	OJ000150_20.0124.C6.o1.np	Method	AAT/NAP
Start	3270	End	3805
GI	4510378	Score	246
Exons	3270..3805		
GI Descrip.	(AC007017) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	27353	Seq. ID	OJ000150_20.0124.C6
Gene No.	56599	Strand	-
Start	2875	End	5386
Name	OJ000150_20.0124.C6.o1.ts	Method	TBLASTX:Soybean
Start	3288	End	3738
GI	none	Score	89
Exons	3288..3482, 3304..3477, 3657..3734, 3658..3738		

Seq. No.	27353	Seq. ID	OJ000150_20.0124.C6
Gene No.	56599	Strand	-
Start	2875	End	5386
Name	OJ000150_20.0124.C6.o1.tm	Method	TBLASTX:Maize
Start	3316	End	3525
GI	none	Score	144
Exons	3316..3525, 3354..3524		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56600	Strand	+
Start	135	End	4655
Name	OJ000150_20.0124.C7.o1.gs	Method	GENSCAN
Start	135	End	4625
GI	none	Score	.59
Exons	135..238, 1887..2140, 3216..3367, 3706..3816, 3896..4160, 4432..4625		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56600	Strand	+
Start	135	End	4655
Name	OJ000150_20.0124.C7.o2.np	Method	AAT/NAP
Start	3269	End	4655
GI	6561992	Score	390
Exons	3269..3367, 3539..3589, 3706..3816, 3896..4027, 4126..4201, 4432..4655		
GI Descrip.	(AL133363) putative protein [Arabidopsis thaliana]		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56600	Strand	+
Start	135	End	4655
Name	OJ000150_20.0124.C7.o1.gp	Method	AAT/GAP
Start	4196	End	4645
GI	none	Score	859
Exons	4196..4645		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56601	Strand	+
Start	6176	End	6599

Name	OJ000150_20.0124.C7.o3.np	Method	AAT/NAP
Start	6176	End	6599
GI	4204095	Score	172
Exons	6176..6599		
GI Descrip.	(AF030260) CYP94A1 [Vicia sativa]		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56602	Strand	-
Start	1	End	1749
Name	OJ000150_20.0124.C7.o1.np	Method	AAT/NAP
Start	1	End	1749
GI	6729484	Score	51
Exons	1..85, 245..335, 1653..1749		
GI Descrip.	(AL132966) putative protein [Arabidopsis thaliana]		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56603	Strand	-
Start	5698	End	6598
Name	OJ000150_20.0124.C7.o1.tm	Method	TBLASTX:Maize
Start	3240	End	4520
GI	none	Score	76
Exons	3240..3311, 3301..3363, 3302..3367, 3534..3590, 3535..3591, 3536..3595, 3692..3808, 3701..3811, 3705..3815, 3705..3818, 3706..3819, 3871..4014, 3895..3945, 3896..4027, 3900..3995, 4125..4202, 4126..4209, 4430..4498, 4431..4520		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56603	Strand	-
Start	5698	End	6598
Name	OJ000150_20.0124.C7.o1.tc	Method	TBLASTX:Cress
Start	3290	End	4652
GI	none	Score	74
Exons	3290..3352, 3518..3595, 3547..3591, 3702..3764, 3703..3825, 3914..4027, 4125..4202, 4126..4209, 4431..4550, 4569..4652		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56603	Strand	-
Start	5698	End	6598
Name	OJ000150_20.0124.C7.o2.gs	Method	GENSCAN
Start	5698	End	6553
GI	none	Score	.88
Exons	5698..5767, 6339..6553		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56603	Strand	-
Start	5698	End	6598
Name	OJ000150_20.0124.C7.o1.ts	Method	TBLASTX:Soybean
Start	6227	End	6598
GI	none	Score	119
Exons	6227..6592, 6230..6403, 6307..6597, 6443..6598		

Seq. No.	27354	Seq. ID	OJ000150_20.0124.C7
Gene No.	56603	Strand	-
Start	5698	End	6598
Name	OJ000150_20.0124.C7.o2.tm	Method	TBLASTX:Maize
Start	6284	End	6598
GI	none	Score	56

Exons 6284..6331, 6335..6598, 6337..6597

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56604	Strand	+
Start	1	End	574
Name	OJ000150_20.0124.C8.o1.np	Method	AAT/NAP
Start	1	End	574
GI	2979544	Score	320
Exons	1..574		
GI Descrip.	(AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56605	Strand	+
Start	2148	End	2683
Name	OJ000150_20.0124.C8.o1.gp	Method	AAT/GAP
Start	2148	End	2683
GI	none	Score	748
Exons	2148..2218, 2351..2683		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56606	Strand	+
Start	3114	End	5568
Name	OJ000150_20.0124.C8.o2.np	Method	AAT/NAP
Start	3114	End	5568
GI	5903044	Score	1352
Exons	3114..5568		
GI Descrip.	(AC008016) Contains 3 PF 01535 DUF domains. [Arabidopsis thaliana]		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56607	Strand	+
Start	6452	End	6609
Name	OJ000150_20.0124.C8.o2.gp	Method	AAT/GAP
Start	6452	End	6609
GI	3090639	Score	231
Exons	6452..6609		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56608	Strand	+
Start	10668	End	11248
Name	OJ000150_20.0124.C8.o4.gs	Method	GENSCAN
Start	10668	End	11248
GI	none	Score	.74
Exons	10668..11248		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56609	Strand	-
Start	7548	End	9132
Name	OJ000150_20.0124.C8.o2.gs	Method	GENSCAN
Start	7548	End	9098
GI	none	Score	.64
Exons	7548..9098		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56609	Strand	-
Start	7548	End	9132
Name	OJ000150_20.0124.C8.o3.np	Method	AAT/NAP

Start	7557	End	9132
GI	4204095	Score	867
Exons	7557..9132		
GI Descrip.	(AF030260) CYP94A1 [Vicia sativa]		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o1.ts	Method	TBLASTX:Soybean
Start	1	End	8853
GI	none	Score	35
Exons	1..48, 2..49, 85..330, 98..331, 331..432, 332..478, 500..556, 7572..7628, 7650..7796, 7690..7797, 7797..8030, 7798..7974, 7971..8042, 8070..8210, 8110..8211, 8274..8453, 8460..8573, 8607..8849, 8695..8853		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o2.tm	Method	TBLASTX:Maize
Start	64	End	8564
GI	none	Score	263
Exons	64..336, 68..337, 359..475, 361..435, 7653..7769, 7693..7767, 7791..8060, 7792..8061, 8070..8144, 8128..8211, 8175..8252, 8293..8358, 8458..8481, 8475..8564		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o1.tc	Method	TBLASTX:Cress
Start	121	End	8006
GI	none	Score	237
Exons	121..333, 122..334, 329..451, 361..429, 7677..7799, 7687..7767, 7794..8006, 7795..7968		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o1.tw	Method	TBLASTX:Wheat
Start	124	End	7997
GI	none	Score	220
Exons	124..330, 131..334, 332..475, 7653..7796, 7794..7997, 7798..7980		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o2.tc	Method	TBLASTX:Cress
Start	3690	End	5394
GI	none	Score	49
Exons	3690..3764, 3770..3991, 3773..3871, 4021..4386, 4027..4182, 4029..4406, 4036..4284, 4084..4287, 4099..4290, 4138..4491, 4140..4412, 4194..4523, 4195..4608, 4204..4413, 4327..4506, 4332..4700, 4351..4704, 4392..4706, 4396..4623, 4402..4809, 4519..4710, 4543..4914, 4597..4815, 4665..4919, 4666..5037, 4729..4920, 4767..5123, 4771..5130, 4855..5037, 4858..5121, 4866..5129, 4927..5124, 5188..5394, 5251..5382		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o3.tm	Method	TBLASTX:Maize
Start	3926	End	5391
GI	none	Score	65
Exons	3926..4030, 3932..4060, 4018..4566, 4027..4662, 4246..4845, 4342..4965, 4456..5058, 4558..5121, 4657..5124, 5236..5391		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o2.ts	Method	TBLASTX:Soybean
Start	3932	End	5379
GI	none	Score	44
Exons	3932..4036, 3973..4566, 3991..4797, 4018..4398, 4054..4176, 4104..4460, 4141..5007, 4240..5010, 4350..4490, 4363..4491, 4441..5121, 4585..4752, 4632..4793, 4648..5010, 4653..4772, 4678..4821, 4750..5121, 4771..5136, 4777..4914, 4854..5009, 4875..4994, 4876..4989, 4963..5100, 5212..5379		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o3.tc	Method	TBLASTX:Cress
Start	8475	End	8849
GI	none	Score	106
Exons	8475..8564, 8607..8849, 8695..8838, 8712..8849		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o1.tm	Method	TBLASTX:Maize
Start	8607	End	9014
GI	none	Score	193
Exons	8607..8855, 8607..8963, 8695..8961, 8967..9014		

Seq. No.	27355	Seq. ID	OJ000150_20.0124.C8
Gene No.	56610	Strand	-
Start	9545	End	10163
Name	OJ000150_20.0124.C8.o3.gs	Method	GENSCAN
Start	9545	End	10163
GI	none	Score	.9
Exons	9545..9814, 9864..10163		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56611	Strand	+
Start	476	End	912
Name	OJ000150_20.0124.C9.o1.gs	Method	GENSCAN
Start	476	End	912
GI	none	Score	.88
Exons	476..912		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56612	Strand	+
Start	6641	End	12285
Name	OJ000150_20.0124.C9.o1.np	Method	AAT/NAP

Start	6641	End	12285
GI	6498441	Score	6944
Exons	6641..7702, 8033..8496, 8560..8933, 9117..9251, 9426..9852, 10045..10341, 10513..11910, 12004..12285		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56613	Strand	-
Start	1114	End	4011
Name	OJ000150_20.0124.C9.o2.gs	Method	GENSCAN
Start	1114	End	4011
GI	none	Score	.82
Exons	1114..1212, 2442..2530, 3101..3314, 3423..3641, 3919..4011		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o5.tm	Method	TBLASTX:Maize
Start	3967	End	4947
GI	none	Score	115
Exons	3967..4110, 3975..4112, 3989..4120, 4756..4947, 4761..4943		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o6.tw	Method	TBLASTX:Wheat
Start	6630	End	7182
GI	none	Score	34
Exons	6630..6665, 6790..6837, 6844..6942, 6849..6941, 6909..7148, 6925..7182		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o4.tm	Method	TBLASTX:Maize
Start	6795	End	7080
GI	none	Score	199
Exons	6795..7079, 6832..7080		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o5.tw	Method	TBLASTX:Wheat
Start	7190	End	10647
GI	none	Score	232
Exons	7190..7243, 10189..10443, 10213..10464, 10278..10463, 10498..10647, 10509..10646		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o3.tw	Method	TBLASTX:Wheat
Start	7917	End	8403
GI	none	Score	401
Exons	7917..8054, 7918..8403, 8112..8372, 8122..8376		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o1.tw	Method	TBLASTX:Wheat
Start	8567	End	9030
GI	none	Score	224
Exons	8567..9010, 8568..9023, 8569..9030, 8569..9024		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o3.ts	Method	TBLASTX:Soybean
Start	8608	End	8973
GI	none	Score	118
Exons	8608..8832, 8839..8973		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o1.tm	Method	TBLASTX:Maize
Start	8698	End	9054
GI	none	Score	394
Exons	8698..9054, 8733..9044, 8749..9054		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o2.tm	Method	TBLASTX:Maize
Start	9081	End	9465
GI	none	Score	357
Exons	9081..9446, 9082..9465		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o2.tw	Method	TBLASTX:Wheat
Start	9138	End	9558
GI	none	Score	487
Exons	9138..9551, 9139..9558		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o1.ts	Method	TBLASTX:Soybean
Start	9217	End	9588
GI	none	Score	282
Exons	9217..9588, 9234..9392		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o2.ts	Method	TBLASTX:Soybean
Start	10336	End	10902
GI	5666795	Score	68
Exons	10336..10434, 10510..10647, 10702..10902		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		



Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o8.tw	Method	TBLASTX:Wheat
Start	10650	End	10962
GI	none	Score	185
Exons	10650..10826, 10702..10962		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o3.tm	Method	TBLASTX:Maize
Start	11154	End	11478
GI	none	Score	75
Exons	11154..11249, 11253..11465, 11254..11478		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o4.tw	Method	TBLASTX:Wheat
Start	11292	End	11673
GI	none	Score	372
Exons	11292..11348, 11293..11673, 11296..11634, 11394..11642		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o7.tw	Method	TBLASTX:Wheat
Start	11674	End	12276
GI	none	Score	264
Exons	11674..11958, 11679..11957, 12150..12272, 12151..12276		

Seq. No.	27356	Seq. ID	OJ000150_20.0124.C9
Gene No.	56614	Strand	-
Start	12919	End	15318
Name	OJ000150_20.0124.C9.o2.np	Method	AAT/NAP
Start	12919	End	15318
GI	6907089	Score	3603
Exons	12919..14851, 14946..15318		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27357	Seq. ID	OJ000150_20.0124.C10
Gene No.	56615	Strand	-
Start	1	End	722
Name	OJ000150_20.0124.C10.o1.np	Method	AAT/NAP
Start	1	End	722
GI	6907089	Score	1214
Exons	1..722		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27358	Seq. ID	OJ000150_20.0124.C11
Gene No.	56616	Strand	-
Start	227	End	3827
Name	OJ000150_20.0124.C11.o1.np	Method	AAT/NAP
Start	227	End	3827
GI	3850583	Score	314

Exons 227..361, 1019..1119, 2348..2491, 3647..3827  
 GI Descrip. (AC005278) Contains similarity to transcription initiation factor IIE, alpha subunit gb|X63468 from Homo sapiens. [Arabidopsis thaliana]

Seq. No. 27359 Seq. ID OJ000150\_20.0124.C12  
 Gene No. 56617 Strand +  
 Start 1 End 16178  
 Name OJ000150\_20.0124.C12.o1.np Method AAT/NAP  
 Start 1 End 14786  
 GI 6598445 Score 3626  
 Exons 1..90, 654..790, 869..980, 1051..1220, 1266..1371, 2163..2343, 3869..3980, 5169..5228, 5573..5691, 5794..6189, 6266..6430, 6521..6593, 7464..7617, 7716..7885, 7969..8313, 8967..9134, 9243..9536, 9935..10111, 10248..10530, 10747..11033, 11143..11478, 11644..11782, 12130..12318, 12993..13119, 13408..13550, 13665..13784, 13885..13944, 14598..14786  
 GI Descrip. (AC005168) unknown protein [Arabidopsis thaliana]

Seq. No. 27359 Seq. ID OJ000150\_20.0124.C12  
 Gene No. 56617 Strand +  
 Start 1 End 16178  
 Name OJ000150\_20.0124.C12.o1.gs Method GENSCAN  
 Start 184 End 14810  
 GI none Score .87  
 Exons 184..273, 654..790, 869..959, 1101..1183, 1265..1371, 2163..2315, 3702..3780, 3872..3980, 4168..4254, 5169..5228, 5573..5691, 5794..6169, 6246..6430, 6807..6837, 7347..7614, 7716..7885, 8077..8236, 8663..8757, 8967..9134, 9243..9536, 9935..10111, 10248..10511, 10648..10746, 10849..11033, 11143..11478, 11644..11797, 11887..11997, 12151..12318, 12993..13119, 13408..13566, 13901..13944, 14598..14810

Seq. No. 27359 Seq. ID OJ000150\_20.0124.C12  
 Gene No. 56617 Strand +  
 Start 1 End 16178  
 Name OJ000150\_20.0124.C12.o1.gp Method AAT/GAP  
 Start 13727 End 16178  
 GI 3859 1.R1084 Score 2012  
 Exons 13727..13784, 13885..13944, 14598..15097, 15632..16178  
 GI Descrip. '3426048 6.0e-26 (AC005168) putative hydroxymethylglutaryl-CoA lyase precursor [Arabidopsis thaliana]'

Seq. No. 27359 Seq. ID OJ000150\_20.0124.C12  
 Gene No. 56618 Strand -  
 Start 11027 End 15251  
 Name OJ000150\_20.0124.C12.o2.np Method AAT/NAP  
 Start 11027 End 15251  
 GI 4539658 Score 38  
 Exons 11027..11057, 15095..15251  
 GI Descrip. (AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]

Seq. No. 27359 Seq. ID OJ000150\_20.0124.C12  
 Gene No. 56619 Strand -  
 Start 15929 End 16352  
 Name OJ000150\_20.0124.C12.o3.ts Method TBLASTX:Soybean

Start	8155	End	9137
GI	none	Score	206
Exons	8155..8313, 8229..8315, 8964..9131, 8966..9136, 8967..9137		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o4.ts	Method	TBLASTX:Soybean
Start	9977	End	10403
GI	none	Score	35
Exons	9977..10033, 10070..10114, 10239..10403, 10239..10376, 10247..10402		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o1.tm	Method	TBLASTX:Maize
Start	10857	End	11974
GI	none	Score	245
Exons	10857..11033, 10858..11022, 10861..11034, 11136..11306, 11140..11478, 11141..11482, 11629..11706, 11636..11704, 11641..11721, 11643..11720, 11707..11796, 11708..11797, 11884..11973, 11885..11974, 11886..11972		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o2.tc	Method	TBLASTX:Cress
Start	10933	End	11436
GI	none	Score	92
Exons	10933..11022, 10959..11024, 11140..11436, 11141..11434		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o1.tw	Method	TBLASTX:Wheat
Start	11010	End	11482
GI	none	Score	50
Exons	11010..11033, 11132..11470, 11141..11482, 11142..11477		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o3.tc	Method	TBLASTX:Cress
Start	11632	End	12015
GI	none	Score	160
Exons	11632..11796, 11636..11797, 11884..12015, 11886..11996		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o2.ts	Method	TBLASTX:Soybean
Start	11653	End	12255
GI	none	Score	145
Exons	11653..11796, 11654..11797, 11884..11997, 11886..12008, 12148..12255		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o3.tm	Method	TBLASTX:Maize
Start	12137	End	13500
GI	none	Score	212
Exons	12137..12325, 12141..12326, 12141..12326, 12148..12351, 12990..13085, 12992..13099, 12994..13119, 13400..13498, 13401..13499, 13402..13500, 13414..13500		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o4.tm	Method	TBLASTX:Maize
Start	13548	End	14774
GI	none	Score	37
Exons	13548..13565, 13679..13756, 13680..13799, 13723..13791, 13870..13944, 13873..13962, 14578..14769, 14592..14768, 14595..14774		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o3.np	Method	AAT/NAP
Start	15914	End	16352
GI	3426048	Score	357
Exons	15914..16162, 16280..16352		
GI Descrip.	(AC005168) putative hydroxymethylglutaryl-CoA lyase [Arabidopsis thaliana]		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o2.gs	Method	GENSCAN
Start	15929	End	16162
GI	none	Score	1
Exons	15929..16162		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o2.tm	Method	TBLASTX:Maize
Start	15930	End	16130
GI	none	Score	243
Exons	15930..16121, 15940..16122, 15965..16129, 15966..16130		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-
Start	15929	End	16352
Name	OJ000150_20.0124.C12.o1.tc	Method	TBLASTX:Cress
Start	15965	End	16349
GI	none	Score	212
Exons	15965..16183, 15966..16166, 16105..16173, 16274..16348, 16277..16348, 16281..16349		

Seq. No.	27359	Seq. ID	OJ000150_20.0124.C12
Gene No.	56619	Strand	-

Start	15929	End	16352
Name	OJ000150_20.0124.C12.o1.ts	Method	TBLASTX:Soybean
Start	15971	End	16349
GI	none	Score	221
Exons	15971..16183, 15972..16160, 15983..16165, 16030..16176, 16277..16348, 16284..16349		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56620	Strand	+
Start	25	End	566
Name	OJ000150_20.0124.C13.o1.gs	Method	GENSCAN
Start	25	End	566
GI	none	Score	.82
Exons	25..163, 334..566		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56621	Strand	+
Start	5478	End	7861
Name	OJ000150_20.0124.C13.o3.gs	Method	GENSCAN
Start	5478	End	7861
GI	none	Score	.84
Exons	5478..6188, 6490..6545, 7543..7666, 7751..7861		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56622	Strand	-
Start	1	End	6208
Name	OJ000150_20.0124.C13.o1.np	Method	AAT/NAP
Start	1	End	6208
GI	6721541	Score	664
Exons	1..270, 366..529, 667..747, 1189..1368, 5807..5975, 6089..6208		
GI Descrip.	(AP001073) ESTs C97134(C52296),C97133(C52296) correspond to a region of the predicted gene.; Similar to Putative hydroxymethylglutaryl-CoA lyase precursor. (AC005168) [Oryza sativa]		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56622	Strand	-
Start	1	End	6208
Name	OJ000150_20.0124.C13.o1.tm	Method	TBLASTX:Maize
Start	61	End	1345
GI	none	Score	193
Exons	61..270, 132..269, 356..451, 360..530, 363..521, 667..753, 667..744, 668..769, 1186..1344, 1187..1345		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56622	Strand	-
Start	1	End	6208
Name	OJ000150_20.0124.C13.o1.ts	Method	TBLASTX:Soybean
Start	61	End	1374
GI	none	Score	207
Exons	61..270, 108..272, 128..283, 132..269, 152..271, 356..451, 360..542, 405..536, 667..744, 1186..1374, 1193..1354		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56622	Strand	-
Start	1	End	6208
Name	OJ000150_20.0124.C13.o1.gp	Method	AAT/GAP

Start	351	End	1689
GI	uC-osf1M202047h01b1	Score	856
Exons	351..529, 667..747, 1189..1368, 1634..1689		
GI Descrip.	'3426048 2.0e-43 (AC005168) putative hydroxymethylglutaryl-CoA lyase precursor [Arabidopsis thaliana]'		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56622	Strand	-
Start	1	End	6208
Name	OJ000150_20.0124.C13.o1.tw	Method	TBLASTX:Wheat
Start	667	End	1371
GI	none	Score	59
Exons	667..744, 668..769, 1184..1354, 1185..1352, 1186..1371, 1187..1357		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56622	Strand	-
Start	1	End	6208
Name	OJ000150_20.0124.C13.o2.gs	Method	GENSCAN
Start	1042	End	5092
GI	none	Score	.8
Exons	1042..1083, 1189..1368, 1634..1766, 2030..2149, 2621..2673, 2733..2903, 4141..4297, 4344..4408, 4949..5092		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56622	Strand	-
Start	1	End	6208
Name	OJ000150_20.0124.C13.o2.gp	Method	AAT/GAP
Start	2253	End	2718
GI	4879942	Score	932
Exons	2253..2718		

Seq. No.	27360	Seq. ID	OJ000150_20.0124.C13
Gene No.	56622	Strand	-
Start	1	End	6208
Name	OJ000150_20.0124.C13.o2.tm	Method	TBLASTX:Maize
Start	5559	End	5720
GI	none	Score	215
Exons	5559..5720, 5630..5716		

Seq. No.	27361	Seq. ID	OJ000150_20.0124.C14
Gene No.	56623	Strand	+
Start	281	End	1728
Name	OJ000150_20.0124.C14.o1.gs	Method	GENSCAN
Start	281	End	1728
GI	none	Score	.82
Exons	281..292, 822..875, 953..1094, 1448..1524, 1564..1728		

Seq. No.	27361	Seq. ID	OJ000150_20.0124.C14
Gene No.	56623	Strand	+
Start	281	End	1728
Name	OJ000150_20.0124.C14.o1.tm	Method	TBLASTX:Maize
Start	683	End	1094
GI	none	Score	104
Exons	683..739, 685..738, 820..876, 821..874, 822..878, 950..1027, 950..994, 1044..1094		

Seq. No. 27362  
 Gene No. 56624  
 Start 93  
 Name OJ000150\_22.0124.C1.ol.gs  
 Start 93  
 GI none  
 Exons 93..233

Seq. ID OJ000150\_22.0124.C1  
 Strand -  
 End 233  
 Method GENSCAN  
 End 233  
 Score .75

Seq. No. 27363  
 Gene No. 56625  
 Start 1  
 Name OJ000150\_22.0124.C2.ol.gp  
 Start 1  
 GI 3767066  
 Exons 1..175  
 GI Descrip. 3402817/emb|CAA07704| 3.0e-21 (AJ007829) lacZ' [Cloning vector pGreen]

Seq. ID OJ000150\_22.0124.C2  
 Strand +  
 End 175  
 Method AAT/GAP  
 End 175  
 Score 289

Seq. No. 27364  
 Gene No. 56626  
 Start 149  
 Name OJ000150\_22.0124.C3.ol.gs  
 Start 149  
 GI none  
 Exons 149..501, 512..692

Seq. ID OJ000150\_22.0124.C3  
 Strand -  
 End 692  
 Method GENSCAN  
 End 692  
 Score .64

Seq. No. 27365  
 Gene No. 56627  
 Start 75  
 Name OJ000150\_22.0124.C4.ol.gp  
 Start 75  
 GI none  
 Exons 75..352

Seq. ID OJ000150\_22.0124.C4  
 Strand -  
 End 352  
 Method AAT/GAP  
 End 352  
 Score 487

Seq. No. 27366  
 Gene No. 56628  
 Start 171  
 Name OJ000150\_22.0124.C5.ol.gs  
 Start 171  
 GI none  
 Exons 171..319, 1141..1201

Seq. ID OJ000150\_22.0124.C5  
 Strand -  
 End 1201  
 Method GENSCAN  
 End 1201  
 Score .87

Seq. No. 27367  
 Gene No. 56629  
 Start 243  
 Name OJ000150\_22.0124.C7.ol.gp  
 Start 243  
 GI uC-osflcyp169f03b1  
 Exons 243..692  
 GI Descrip. '5441872/dbj|AP000366.1|AP000366 1.0e-17 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'

Seq. ID OJ000150\_22.0124.C7  
 Strand +  
 End 692  
 Method AAT/GAP  
 End 692  
 Score 874

Seq. No. 27368  
 Gene No. 56630  
 Start 73  
 Name OJ000150\_22.0124.C9.ol.tw  
 Start 65

Seq. ID OJ000150\_22.0124.C9  
 Strand +  
 End 419  
 Method TBLASTX:Wheat  
 End 419

GI	none	Score	36
Exons	65..109, 65..97, 110..217, 112..204, 135..233, 216..278, 290..418, 293..346, 390..419		

Seq. No.	27368	Seq. ID	OJ000150_22.0124.C9
Gene No.	56630	Strand	+
Start	73	End	419
Name	OJ000150_22.0124.C9.o1.gs	Method	GENSCAN
Start	73	End	174
GI	none	Score	.96
Exons	73..174		

Seq. No.	27369	Seq. ID	OJ000150_22.0124.C10
Gene No.	56631	Strand	+
Start	329	End	415
Name	OJ000150_22.0124.C10.o1.gp	Method	AAT/GAP
Start	329	End	415
GI	LIB3477-003-P1-K1-E9	Score	119
Exons	329..415		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27370	Seq. ID	OJ000150_22.0124.C11
Gene No.	56632	Strand	-
Start	212	End	317
Name	OJ000150_22.0124.C11.o1.gs	Method	GENSCAN
Start	212	End	317
GI	none	Score	.85
Exons	212..317		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56633	Strand	+
Start	643	End	1244
Name	OJ000150_22.0124.C12.o1.gs	Method	GENSCAN
Start	643	End	1244
GI	none	Score	.49
Exons	643..774, 1002..1032, 1069..1244		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56634	Strand	+
Start	6434	End	8287
Name	OJ000150_22.0124.C12.o3.gs	Method	GENSCAN
Start	6434	End	8287
GI	none	Score	.77
Exons	6434..6463, 6682..6778, 7544..7614, 8147..8287		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56635	Strand	+
Start	9589	End	9877
Name	OJ000150_22.0124.C12.o1.gp	Method	AAT/GAP
Start	9589	End	9877
GI	426253	Score	518
Exons	9589..9877		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56636	Strand	+



Start	10454	End	14257
Name	OJ000150_22.0124.C12.o1.np	Method	AAT/NAP
Start	10454	End	14257
GI	6630696	Score	6617
Exons	10454..14257		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56636	Strand	+
Start	10454	End	14257
Name	OJ000150_22.0124.C12.o2.gp	Method	AAT/GAP
Start	10496	End	11386
GI	101595_1.R1084	Score	1455
Exons	10496..11196, 11312..11386		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56637	Strand	+
Start	15018	End	15306
Name	OJ000150_22.0124.C12.o3.gp	Method	AAT/GAP
Start	15018	End	15306
GI	426253	Score	518
Exons	15018..15306		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56638	Strand	+
Start	16965	End	17198
Name	OJ000150_22.0124.C12.o5.gs	Method	GENSCAN
Start	16965	End	17198
GI	none	Score	.53
Exons	16965..17198		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o4.tw	Method	TBLASTX:Wheat
Start	10345	End	10745
GI	none	Score	135
Exons	10345..10446, 10346..10483, 10460..10744, 10534..10725, 10563..10745		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o4.tm	Method	TBLASTX:Maize
Start	10496	End	10804
GI	none	Score	317
Exons	10496..10804, 10543..10725, 10596..10739, 10625..10801		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o1.tm	Method	TBLASTX:Maize
Start	11327	End	11671

GI	none	Score	391
Exons	11327..11599, 11328..11600, 11328..11600, 11329..11601, 11329..11601, 11630..11671		
Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o5.ts	Method	TBLASTX:Soybean
Start	11645	End	12025
GI	none	Score	88
Exons	11645..11794, 11777..12025		
Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o5.tm	Method	TBLASTX:Maize
Start	11783	End	12247
GI	none	Score	309
Exons	11783..12247, 12022..12174		
Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o5.tw	Method	TBLASTX:Wheat
Start	11888	End	12090
GI	none	Score	274
Exons	11888..12088, 11890..12090, 11891..12088, 11893..12090		
Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o2.ts	Method	TBLASTX:Soybean
Start	12035	End	12433
GI	none	Score	203
Exons	12035..12256, 12037..12252, 12260..12433		
Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o1.tw	Method	TBLASTX:Wheat
Start	12091	End	12838
GI	none	Score	261
Exons	12091..12498, 12091..12588, 12098..12838, 12584..12838		
Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o1.ts	Method	TBLASTX:Soybean
Start	12758	End	13222
GI	5509260	Score	389
Exons	12758..13222, 12853..13014		
GI Descrip.	-		
Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o1.tc	Method	TBLASTX:Cress

Start 12851  
 GI none  
 Exons 12851..13111, 12853..13023

End 13111  
 Score 291

Seq. No. 27371 Seq. ID OJ000150\_22.0124.C12  
 Gene No. 56639 Strand -  
 Start 18870 End 21631  
 Name OJ000150\_22.0124.C12.o2.tm Method TBLASTX:Maize  
 Start 12892 End 13357  
 GI none Score 359  
 Exons 12892..13023, 12893..13357, 13028..13108, 13144..13254

Seq. No. 27371 Seq. ID OJ000150\_22.0124.C12  
 Gene No. 56639 Strand -  
 Start 18870 End 21631  
 Name OJ000150\_22.0124.C12.o3.tw Method TBLASTX:Wheat  
 Start 12893 End 13438  
 GI none Score 316  
 Exons 12893..13237, 12910..13074, 13232..13438

Seq. No. 27371 Seq. ID OJ000150\_22.0124.C12  
 Gene No. 56639 Strand -  
 Start 18870 End 21631  
 Name OJ000150\_22.0124.C12.o3.ts Method TBLASTX:Soybean  
 Start 13291 End 13642  
 GI none Score 141  
 Exons 13291..13455, 13292..13450, 13450..13638, 13451..13639, 13460..13642

Seq. No. 27371 Seq. ID OJ000150\_22.0124.C12  
 Gene No. 56639 Strand -  
 Start 18870 End 21631  
 Name OJ000150\_22.0124.C12.o3.tm Method TBLASTX:Maize  
 Start 13418 End 13790  
 GI none Score 358  
 Exons 13418..13789, 13441..13788, 13542..13790

Seq. No. 27371 Seq. ID OJ000150\_22.0124.C12  
 Gene No. 56639 Strand -  
 Start 18870 End 21631  
 Name OJ000150\_22.0124.C12.o2.tw Method TBLASTX:Wheat  
 Start 13646 End 14121  
 GI none Score 105  
 Exons 13646..13720, 13647..13706, 13651..13746, 13651..13719, 13735..14121, 13736..14119

Seq. No. 27371 Seq. ID OJ000150\_22.0124.C12  
 Gene No. 56639 Strand -  
 Start 18870 End 21631  
 Name OJ000150\_22.0124.C12.o4.ts Method TBLASTX:Soybean  
 Start 13652 End 13993  
 GI none Score 97  
 Exons 13652..13765, 13687..13755, 13784..13993, 13789..13914

Seq. No. 27371 Seq. ID OJ000150\_22.0124.C12  
 Gene No. 56639 Strand -  
 Start 18870 End 21631

Name	OJ000150_22.0124.C12.o6.tw	Method	TBLASTX:Wheat
Start	14394	End	14748
GI	none	Score	36
Exons	14394..14438, 14394..14426, 14439..14546, 14441..14533, 14464..14562, 14545..14607, 14546..14572, 14619..14747, 14622..14675, 14719..14748		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o6.gs	Method	GENSCAN
Start	18870	End	21631
GI	none	Score	.41
Exons	18870..18967, 21379..21631		

Seq. No.	27371	Seq. ID	OJ000150_22.0124.C12
Gene No.	56639	Strand	-
Start	18870	End	21631
Name	OJ000150_22.0124.C12.o2.np	Method	AAT/NAP
Start	20104	End	21052
GI	6539571	Score	58
Exons	20104..20190, 20791..21052		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	27372	Seq. ID	OJ000150_22.0124.C13
Gene No.	56640	Strand	-
Start	832	End	1120
Name	OJ000150_22.0124.C13.o1.gs	Method	GENSCAN
Start	832	End	1120
GI	none	Score	.67
Exons	832..1020, 1052..1120		

Seq. No.	27373	Seq. ID	OJ000150_22.0124.C14
Gene No.	56641	Strand	+
Start	1	End	435
Name	OJ000150_22.0124.C14.o1.gp	Method	AAT/GAP
Start	1	End	435
GI	3767066	Score	739
Exons	1..435		
GI Descrip.	3402817/emb CAA07704  3.0e-21 (AJ007829) lacZ' [Cloning vector pGreen]		

Seq. No.	27373	Seq. ID	OJ000150_22.0124.C14
Gene No.	56641	Strand	+
Start	1	End	435
Name	OJ000150_22.0124.C14.o1.gs	Method	GENSCAN
Start	30	End	281
GI	none	Score	.47
Exons	30..281		

Seq. No.	27374	Seq. ID	OJ000150_22.0124.C15
Gene No.	56642	Strand	+
Start	42	End	924
Name	OJ000150_22.0124.C15.o1.gs	Method	GENSCAN
Start	42	End	924
GI	none	Score	.76
Exons	42..141, 222..356, 589..716, 843..924		

Seq. No.	27374	Seq. ID	OJ000150_22.0124.C15
Gene No.	56643	Strand	+
Start	846	End	924
Name	OJ000150_22.0124.C15.ol.gp	Method	AAT/GAP
Start	846	End	924
GI	1382_1.R1084	Score	130
Exons	846..924		
GI Descrip.	'3402817/emb CAA07704  3.0e-21 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	27375	Seq. ID	OJ000150_22.0124.C16
Gene No.	56644	Strand	+
Start	503	End	564
Name	OJ000150_22.0124.C16.ol.gs	Method	GENSCAN
Start	503	End	564
GI	none	Score	.45
Exons	503..564		

Seq. No.	27375	Seq. ID	OJ000150_22.0124.C16
Gene No.	56645	Strand	-
Start	496	End	704
Name	OJ000150_22.0124.C16.ol.gp	Method	AAT/GAP
Start	496	End	704
GI	1382_1.R1084	Score	381
Exons	496..704		
GI Descrip.	'3402817/emb CAA07704  3.0e-21 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	27376	Seq. ID	OJ000150_22.0124.C17
Gene No.	56646	Strand	+
Start	54	End	291
Name	OJ000150_22.0124.C17.ol.gs	Method	GENSCAN
Start	54	End	291
GI	none	Score	.57
Exons	54..157, 177..291		

Seq. No.	27377	Seq. ID	OJ000150_22.0124.C18
Gene No.	56647	Strand	+
Start	1	End	1152
Name	OJ000150_22.0124.C18.ol.np	Method	AAT/NAP
Start	1	End	1152
GI	4680186	Score	192
Exons	1..31, 284..366, 842..1022, 1134..1152		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	27377	Seq. ID	OJ000150_22.0124.C18
Gene No.	56648	Strand	-
Start	355	End	951
Name	OJ000150_22.0124.C18.ol.gs	Method	GENSCAN
Start	355	End	951
GI	none	Score	.84
Exons	355..428, 897..951		

Seq. No.	27378	Seq. ID	OJ000150_22.0124.C19
Gene No.	56649	Strand	-
Start	42	End	191

Name	OJ000150_22.0124.C19.ol.gs	Method	GENSCAN
Start	42	End	191
GI	none	Score	.57
Exons	42..191		

Seq. No.	27379	Seq. ID	OJ000150_22.0124.C20
Gene No.	56650	Strand	-
Start	636	End	820
Name	OJ000150_22.0124.C20.ol.gs	Method	GENSCAN
Start	636	End	820
GI	none	Score	.85
Exons	636..653, 686..820		

Seq. No.	27380	Seq. ID	OJ000150_22.0124.C22
Gene No.	56651	Strand	+
Start	733	End	1446
Name	OJ000150_22.0124.C22.ol.gs	Method	GENSCAN
Start	733	End	1446
GI	none	Score	.73
Exons	733..835, 1379..1446		

Seq. No.	27380	Seq. ID	OJ000150_22.0124.C22
Gene No.	56652	Strand	+
Start	4175	End	4491
Name	OJ000150_22.0124.C22.ol.gp	Method	AAT/GAP
Start	4175	End	4491
GI	LIB3432-004-P1-K1-G2	Score	503
Exons	4175..4491		
GI Descrip.	'132672/sp P12137 RK14_ORYSA 4.0e-50 CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 >gi_71224_pir_R5RZ14 ribosomal protein L14 - rice chloroplast >gi_12023_emb_CAA33932_(X15901) ribosomal protein L14 [Oryza sativa] >gi_226644_prf_1603356BU ribosomal protein L14 [Oryza sativa]'		

Seq. No.	27380	Seq. ID	OJ000150_22.0124.C22
Gene No.	56653	Strand	-
Start	4066	End	4690
Name	OJ000150_22.0124.C22.ol.np	Method	AAT/NAP
Start	4066	End	4434
GI	132672	Score	372
Exons	4066..4434		
GI Descrip.	CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 gi 71224 pir  R5RZ14 ribosomal protein L14 - rice chloroplast gi 12023 emb CAA33932 (X15901) ribosomal protein L14 [Oryza sativa] gi 226644 prf  1603356BU ribosomal protein L14 [Oryza sativa]		

Seq. No.	27380	Seq. ID	OJ000150_22.0124.C22
Gene No.	56653	Strand	-
Start	4066	End	4690
Name	OJ000150_22.0124.C22.ol.tc	Method	TBLASTX:Cress
Start	4153	End	4476
GI	none	Score	87
Exons	4153..4260, 4174..4260, 4261..4353, 4262..4366, 4263..4361, 4342..4443, 4349..4441, 4355..4453, 4375..4476		

Seq. No.	27380	Seq. ID	OJ000150_22.0124.C22
Gene No.	56653	Strand	-

Start	4066	End	4690
Name	OJ000150_22.0124.C22.o1.ts	Method	TBLASTX:Soybean
Start	4153	End	4453
GI	none	Score	149
Exons	4153..4308, 4174..4353, 4193..4366, 4223..4354, 4239..4358, 4342..4443, 4349..4453		

Seq. No.	27380	Seq. ID	OJ000150_22.0124.C22
Gene No.	56653	Strand	-
Start	4066	End	4690
Name	OJ000150_22.0124.C22.o1.tw	Method	TBLASTX:Wheat
Start	4174	End	4314
GI	none	Score	204
Exons	4174..4314, 4186..4308, 4220..4312, 4236..4313		

Seq. No.	27380	Seq. ID	OJ000150_22.0124.C22
Gene No.	56653	Strand	-
Start	4066	End	4690
Name	OJ000150_22.0124.C22.o1.tm	Method	TBLASTX:Maize
Start	4204	End	4478
GI	none	Score	81
Exons	4204..4248, 4205..4249, 4251..4301, 4253..4465, 4253..4465, 4254..4478		

Seq. No.	27380	Seq. ID	OJ000150_22.0124.C22
Gene No.	56653	Strand	-
Start	4066	End	4690
Name	OJ000150_22.0124.C22.o3.gs	Method	GENSCAN
Start	4285	End	4690
GI	none	Score	.88
Exons	4285..4419, 4602..4690		

Seq. No.	27381	Seq. ID	OJ000150_22.0124.C23
Gene No.	56654	Strand	+
Start	405	End	4021
Name	OJ000150_22.0124.C23.o1.np	Method	AAT/NAP
Start	405	End	4021
GI	6523547	Score	170
Exons	405..434, 2017..2267, 2385..2533, 2756..2872, 3994..4021		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	27381	Seq. ID	OJ000150_22.0124.C23
Gene No.	56654	Strand	+
Start	405	End	4021
Name	OJ000150_22.0124.C23.o1.ts	Method	TBLASTX:Soybean
Start	2307	End	2891
GI	none	Score	109
Exons	2307..2459, 2535..2615, 2673..2774, 2727..2891		

Seq. No.	27382	Seq. ID	OJ000150_22.0124.C24
Gene No.	56655	Strand	+
Start	830	End	3020
Name	OJ000150_22.0124.C24.o1.gs	Method	GENSCAN
Start	830	End	2066
GI	none	Score	.56
Exons	830..881, 1651..2066		

Seq. No.	27382	Seq. ID	OJ000150_22.0124.C24
Gene No.	56655	Strand	+
Start	830	End	3020
Name	OJ000150_22.0124.C24.o1.np	Method	AAT/NAP
Start	1417	End	3020
GI	6907086	Score	923
Exons	1417..2193, 2251..2418, 2633..3020		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27383	Seq. ID	OJ000150_22.0124.C26
Gene No.	56656	Strand	+
Start	253	End	477
Name	OJ000150_22.0124.C26.o1.gs	Method	GENSCAN
Start	253	End	477
GI	none	Score	.59
Exons	253..300, 410..477		

Seq. No.	27383	Seq. ID	OJ000150_22.0124.C26
Gene No.	56657	Strand	-
Start	949	End	1040
Name	OJ000150_22.0124.C26.o2.gs	Method	GENSCAN
Start	949	End	1040
GI	none	Score	.79
Exons	949..1040		

Seq. No.	27384	Seq. ID	OJ000150_22.0124.C27
Gene No.	56658	Strand	+
Start	278	End	756
Name	OJ000150_22.0124.C27.o1.gs	Method	GENSCAN
Start	278	End	683
GI	none	Score	.88
Exons	278..366, 549..683		

Seq. No.	27384	Seq. ID	OJ000150_22.0124.C27
Gene No.	56658	Strand	+
Start	278	End	756
Name	OJ000150_22.0124.C27.o1.tm	Method	TBLASTX:Maize
Start	490	End	717
GI	none	Score	328
Exons	490..699, 503..715, 503..715, 667..717		

Seq. No.	27384	Seq. ID	OJ000150_22.0124.C27
Gene No.	56658	Strand	+
Start	278	End	756
Name	OJ000150_22.0124.C27.o1.tc	Method	TBLASTX:Cress
Start	492	End	707
GI	none	Score	87
Exons	492..593, 515..613, 525..626, 526..612, 527..619, 607..699, 614..706, 615..707		

Seq. No.	27384	Seq. ID	OJ000150_22.0124.C27
Gene No.	56658	Strand	+
Start	278	End	756
Name	OJ000150_22.0124.C27.o1.ts	Method	TBLASTX:Soybean
Start	515	End	756
GI	none	Score	131



Exons	515..619, 525..626, 614..736, 615..746, 660..755, 691..756		
Seq. No.	27384	Seq. ID	OJ000150_22.0124.C27
Gene No.	56658	Strand	+
Start	278	End	756
Name	OJ000150_22.0124.C27.ol.np	Method	AAT/NAP
Start	534	End	756
GI	132672	Score	333
Exons	534..756		
GI Descrip.	CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 gi 71224 pir  R5RZ14 ribosomal protein L14 - rice chloroplast gi 12023 emb CAA33932  (X15901) ribosomal protein L14 [Oryza sativa] gi 226644 prf  1603356BU ribosomal protein L14 [Oryza sativa]		

Seq. No.	27385	Seq. ID	OJ000150_22.0124.C30
Gene No.	56659	Strand	+
Start	270	End	495
Name	OJ000150_22.0124.C30.ol.gs	Method	GENSCAN
Start	270	End	495
GI	none	Score	.91
Exons	270..495		

Seq. No.	27386	Seq. ID	OJ000150_22.0124.C32
Gene No.	56660	Strand	-
Start	240	End	409
Name	OJ000150_22.0124.C32.ol.gs	Method	GENSCAN
Start	240	End	409
GI	none	Score	.97
Exons	240..409		

Seq. No.	27387	Seq. ID	OJ000150_22.0124.C33
Gene No.	56661	Strand	-
Start	105	End	566
Name	OJ000150_22.0124.C33.ol.gs	Method	GENSCAN
Start	105	End	566
GI	none	Score	.61
Exons	105..161, 497..566		

Seq. No.	27388	Seq. ID	OJ000150_22.0124.C34
Gene No.	56662	Strand	-
Start	58	End	170
Name	OJ000150_22.0124.C34.ol.gs	Method	GENSCAN
Start	58	End	170
GI	none	Score	.96
Exons	58..170		

Seq. No.	27389	Seq. ID	OJ000150_22.0124.C36
Gene No.	56663	Strand	-
Start	519	End	579
Name	OJ000150_22.0124.C36.ol.gs	Method	GENSCAN
Start	519	End	579
GI	none	Score	.87
Exons	519..579		

Seq. No.	27390	Seq. ID	OJ000150_22.0124.C39
Gene No.	56664	Strand	+
Start	1	End	682

Name	OJ000150_22.0124.C39.ol.np	Method	AAT/NAP
Start	1	End	682
GI	4680183	Score	958
Exons	1..682		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	27390	Seq. ID	OJ000150_22.0124.C39
Gene No.	56664	Strand	+
Start	1	End	682
Name	OJ000150_22.0124.C39.ol.tw	Method	TBLASTX:Wheat
Start	49	End	411
GI	none	Score	200
Exons	49..411		

Seq. No.	27390	Seq. ID	OJ000150_22.0124.C39
Gene No.	56664	Strand	+
Start	1	End	682
Name	OJ000150_22.0124.C39.ol.gs	Method	GENSCAN
Start	112	End	639
GI	none	Score	.7
Exons	112..639		

Seq. No.	27391	Seq. ID	OJ000150_22.0124.C41
Gene No.	56665	Strand	+
Start	447	End	907
Name	OJ000150_22.0124.C41.ol.gs	Method	GENSCAN
Start	447	End	907
GI	none	Score	.47
Exons	447..504, 649..752, 784..907		

Seq. No.	27392	Seq. ID	OJ000150_22.0124.C42
Gene No.	56666	Strand	-
Start	46	End	102
Name	OJ000150_22.0124.C42.ol.gp	Method	AAT/GAP
Start	46	End	102
GI	uC-osflM202097d10b1	Score	88
Exons	46..102		
GI Descrip.	'4062935/dbj AB003495.1 AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	27393	Seq. ID	OJ000150_22.0124.C44
Gene No.	56667	Strand	+
Start	453	End	640
Name	OJ000150_22.0124.C44.ol.gs	Method	GENSCAN
Start	453	End	640
GI	none	Score	.41
Exons	453..640		

Seq. No.	27394	Seq. ID	OJ000150_22.0124.C45
Gene No.	56668	Strand	+
Start	80	End	583
Name	OJ000150_22.0124.C45.ol.gs	Method	GENSCAN
Start	80	End	583
GI	none	Score	.78
Exons	80..583		

Seq. No.	27395	Seq. ID	OJ000150_22.0124.C47
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Gene No.	56669	Strand	+
Start	363	End	460
Name	OJ000150_22.0124.C47.o1.gs	Method	GENSCAN
Start	363	End	460
GI	none	Score	.41
Exons	363..460		

Seq. No.	27396	Seq. ID	OJ000150_22.0124.C50
Gene No.	56670	Strand	-
Start	296	End	390
Name	OJ000150_22.0124.C50.o1.gs	Method	GENSCAN
Start	296	End	390
GI	none	Score	.9
Exons	296..390		

Seq. No.	27397	Seq. ID	OJ000150_22.0124.C51
Gene No.	56671	Strand	-
Start	39	End	177
Name	OJ000150_22.0124.C51.o1.gp	Method	AAT/GAP
Start	39	End	177
GI	LIB3433-003-Q6-K6-A1	Score	235
Exons	39..177		
GI Descrip.	'3298546 3.0e-20 (AC004681) unknown protein [Arabidopsis thaliana]'		

Seq. No.	27397	Seq. ID	OJ000150_22.0124.C51
Gene No.	56671	Strand	-
Start	39	End	177
Name	OJ000150_22.0124.C51.o1.gs	Method	GENSCAN
Start	44	End	177
GI	none	Score	.62
Exons	44..177		

Seq. No.	27398	Seq. ID	OJ000150_22.0124.C52
Gene No.	56672	Strand	-
Start	234	End	419
Name	OJ000150_22.0124.C52.o1.gs	Method	GENSCAN
Start	234	End	419
GI	none	Score	.6
Exons	234..419		

Seq. No.	27398	Seq. ID	OJ000150_22.0124.C52
Gene No.	56673	Strand	-
Start	336	End	610
Name	OJ000150_22.0124.C52.o2.tm	Method	TBLASTX:Maize
Start	63	End	216
GI	none	Score	113
Exons	63..212, 63..212, 64..216, 65..214		

Seq. No.	27398	Seq. ID	OJ000150_22.0124.C52
Gene No.	56673	Strand	-
Start	336	End	610
Name	OJ000150_22.0124.C52.o1.np	Method	AAT/NAP
Start	336	End	610
GI	4768986	Score	226
Exons	336..610		
GI Descrip.	(AF140493) hypothetical protein [Oryza sativa]		

Seq. No. 27398  
 Gene No. 56673  
 Start 336  
 Name OJ000150\_22.0124.C52.o1.tm  
 Start 372  
 GI none  
 Exons 372..608, 376..606

Seq. ID OJ000150\_22.0124.C52  
 Strand -  
 End 610  
 Method TBLASTX:Maize  
 End 608  
 Score 248

Seq. No. 27399  
 Gene No. 56674  
 Start 79  
 Name OJ000150\_22.0124.C53.o1.gs  
 Start 79  
 GI none  
 Exons 79..272

Seq. ID OJ000150\_22.0124.C53  
 Strand +  
 End 272  
 Method GENSCAN  
 End 272  
 Score .65

Seq. No. 27400  
 Gene No. 56675  
 Start 435  
 Name OJ000150\_22.0124.C54.o1.gs  
 Start 435  
 GI none  
 Exons 435..632

Seq. ID OJ000150\_22.0124.C54  
 Strand -  
 End 632  
 Method GENSCAN  
 End 632  
 Score .44

Seq. No. 27401  
 Gene No. 56676  
 Start 486  
 Name OJ000150\_22.0124.C55.o1.gp  
 Start 486  
 GI 426253  
 Exons 486..688

Seq. ID OJ000150\_22.0124.C55  
 Strand +  
 End 688  
 Method AAT/GAP  
 End 688  
 Score 342

Seq. No. 27402  
 Gene No. 56677  
 Start 1  
 Name OJ000150\_22.0124.C58.o1.np  
 Start 1  
 GI 2126090  
 Exons 1..701

Seq. ID OJ000150\_22.0124.C58  
 Strand +  
 End 701  
 Method AAT/NAP  
 End 701  
 Score 1221

GI Descrip. transposase (insertion sequence IS10) - Escherichia coli  
 gi|455676|bbs|140379 (S67119) transposase [Escherichia coli,  
 LBB84, plasmid pXT107, IS10L/R-1, Peptide  
 PlasmidTransposonInsertionMutant, 402 aa] [Escherichia coli]  
 gi|6634720|gb|AAF19728.1|AC012463\_2 (AC012463) T2E6.2  
 [Arabidopsis thaliana]

Seq. No. 27403  
 Gene No. 56678  
 Start 242  
 Name OJ000150\_22.0124.C59.o1.gs  
 Start 242  
 GI none  
 Exons 242..295, 632..731

Seq. ID OJ000150\_22.0124.C59  
 Strand -  
 End 731  
 Method GENSCAN  
 End 731  
 Score .53

Seq. No. 27404  
 Gene No. 56679

Seq. ID OJ000150\_22.0124.C60  
 Strand -

Start	1	End	88
Name	OJ000150_22.0124.C60.o1.gp	Method	AAT/GAP
Start	1	End	88
GI	LIB3477-009-P1-K1-E12	Score	176
Exons	1..88		
GI Descrip.	'4544462/gb AAD22369.1 AC006580_1 3.0e-18 (AC006580) putative NAM protein [Arabidopsis thaliana]'		

Seq. No.	27404	Seq. ID	OJ000150_22.0124.C60
Gene No.	56680	Strand	-
Start	475	End	593
Name	OJ000150_22.0124.C60.o1.gs	Method	GENSCAN
Start	475	End	593
GI	none	Score	.43
Exons	475..593		

Seq. No.	27405	Seq. ID	OJ000150_22.0124.C61
Gene No.	56681	Strand	+
Start	349	End	991
Name	OJ000150_22.0124.C61.o1.gp	Method	AAT/GAP
Start	349	End	991
GI	none	Score	1188
Exons	349..991		

Seq. No.	27405	Seq. ID	OJ000150_22.0124.C61
Gene No.	56681	Strand	+
Start	349	End	991
Name	OJ000150_22.0124.C61.o1.gs	Method	GENSCAN
Start	512	End	727
GI	none	Score	1
Exons	512..727		

Seq. No.	27405	Seq. ID	OJ000150_22.0124.C61
Gene No.	56682	Strand	-
Start	1002	End	1182
Name	OJ000150_22.0124.C61.o1.tm	Method	TBLASTX:Maize
Start	505	End	645
GI	none	Score	215
Exons	505..645, 512..640		

Seq. No.	27405	Seq. ID	OJ000150_22.0124.C61
Gene No.	56682	Strand	-
Start	1002	End	1182
Name	OJ000150_22.0124.C61.o2.gs	Method	GENSCAN
Start	1002	End	1182
GI	none	Score	.87
Exons	1002..1105, 1173..1182		

Seq. No.	27406	Seq. ID	OJ000150_22.0124.C62
Gene No.	56683	Strand	+
Start	64	End	202
Name	OJ000150_22.0124.C62.o1.gp	Method	AAT/GAP
Start	64	End	202
GI	none	Score	196
Exons	64..202		

Seq. No.	27406	Seq. ID	OJ000150_22.0124.C62
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Gene No.	56684	Strand	+
Start	2335	End	3766
Name	OJ000150_22.0124.C62.o1.np	Method	AAT/NAP
Start	2335	End	3766
GI	6907088	Score	1004
Exons	2335..2472, 2648..2884, 3383..3766		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27406	Seq. ID	OJ000150_22.0124.C62
Gene No.	56685	Strand	-
Start	217	End	613
Name	OJ000150_22.0124.C62.o1.gs	Method	GENSCAN
Start	217	End	613
GI	none	Score	.71
Exons	217..316, 462..613		

Seq. No.	27406	Seq. ID	OJ000150_22.0124.C62
Gene No.	56686	Strand	-
Start	1470	End	2283
Name	OJ000150_22.0124.C62.o2.gp	Method	AAT/GAP
Start	1470	End	1987
GI	38782_1.R1084	Score	799
Exons	1470..1987		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	27406	Seq. ID	OJ000150_22.0124.C62
Gene No.	56686	Strand	-
Start	1470	End	2283
Name	OJ000150_22.0124.C62.o2.gs	Method	GENSCAN
Start	1780	End	2283
GI	none	Score	.98
Exons	1780..1853, 2262..2283		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56687	Strand	+
Start	1040	End	2029
Name	OJ000150_22.0124.C63.o1.gs	Method	GENSCAN
Start	1040	End	2029
GI	none	Score	.97
Exons	1040..2029		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56688	Strand	+
Start	4008	End	4944
Name	OJ000150_22.0124.C63.o2.gs	Method	GENSCAN
Start	4008	End	4944
GI	none	Score	.69
Exons	4008..4518, 4529..4944		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56689	Strand	+
Start	9349	End	10691
Name	OJ000150_22.0124.C63.o4.gs	Method	GENSCAN
Start	9349	End	10691
GI	none	Score	.79
Exons	9349..9496, 9710..10110, 10176..10691		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56690	Strand	+
Start	11941	End	14422
Name	OJ000150_22.0124.C63.o5.gs	Method	GENSCAN
Start	11941	End	14422
GI	none	Score	.65
Exons	11941..12016, 12084..12249, 12984..13131, 14085..14280, 14391..14422		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56691	Strand	+
Start	14819	End	15277
Name	OJ000150_22.0124.C63.o2.np	Method	AAT/NAP
Start	14819	End	15277
GI	3915000	Score	153
Exons	14819..14897, 14978..15076, 15163..15277		
GI Descrip.	SUPEROXIDE DISMUTASE [CU-ZN] gi 2305109 (AF009734) Cu/Zn superoxide dismutase [Capsicum annuum]		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56692	Strand	+
Start	18839	End	23909
Name	OJ000150_22.0124.C63.o7.gs	Method	GENSCAN
Start	18839	End	23755
GI	none	Score	.73
Exons	18839..19507, 19607..19742, 20572..20744, 22481..22554, 22933..23755		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56692	Strand	+
Start	18839	End	23909
Name	OJ000150_22.0124.C63.o1.gp	Method	AAT/GAP
Start	22671	End	22959
GI	3107294	Score	574
Exons	22671..22959		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56692	Strand	+
Start	18839	End	23909
Name	OJ000150_22.0124.C63.o2.gp	Method	AAT/GAP
Start	23503	End	23909
GI	3767066	Score	735
Exons	23503..23909		
GI Descrip.	3402817/emb CAA07704  3.0e-21 (AJ007829) lacZ' [Cloning vector pGreen]		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56693	Strand	+
Start	26107	End	27198
Name	OJ000150_22.0124.C63.o8.gs	Method	GENSCAN
Start	26107	End	27198
GI	none	Score	.96
Exons	26107..27198		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56694	Strand	+

Start	29918	End	35910
Name	OJ000150_22.0124.C63.o10.gs	Method	GENSCAN
Start	29918	End	35910
GI	none	Score	.41
Exons	29918..30646, 30662..30722, 31317..31500, 33129..33386, 33397..34134, 34553..34727, 34885..35910		

Seq. No.	27407	Seq. ID	OJ000150_22.0124.C63
Gene No.	56695	Strand	-
Start	15659	End	18155
Name	OJ000150_22.0124.C63.o6.gs	Method	GENSCAN
Start	15659	End	18155
GI	none	Score	.69
Exons	15659..15752, 18067..18155		

Seq. No.	27408	Seq. ID	OJ000150_22.0124.C65
Gene No.	56696	Strand	-
Start	49	End	110
Name	OJ000150_22.0124.C65.o1.gs	Method	GENSCAN
Start	49	End	110
GI	none	Score	.96
Exons	49..110		

Seq. No.	27409	Seq. ID	OJ000150_22.0124.C66
Gene No.	56697	Strand	+
Start	586	End	700
Name	OJ000150_22.0124.C66.o1.gp	Method	AAT/GAP
Start	586	End	700
GI	LIB3432-004-P1-K1-G2	Score	151
Exons	586..700		
GI Descrip.	'132672/sp P12137 RK14 ORYSA 4.0e-50 CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 >gi_71224_pir_R5RZ14 ribosomal protein L14 - rice chloroplast >gi_12023_emb_CAA33932_(X15901) ribosomal protein L14 [Oryza sativa] >gi_226644_prf_1603356BU ribosomal protein L14 [Oryza sativa]'		

Seq. No.	27409	Seq. ID	OJ000150_22.0124.C66
Gene No.	56698	Strand	-
Start	1	End	760
Name	OJ000150_22.0124.C66.o1.np	Method	AAT/NAP
Start	1	End	760
GI	132672	Score	140
Exons	1..30, 585..760		
GI Descrip.	CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 gi 71224 pir  R5RZ14 ribosomal protein L14 - rice chloroplast gi 12023 emb CAA33932 (X15901) ribosomal protein L14 [Oryza sativa] gi 226644 prf  1603356BU ribosomal protein L14 [Oryza sativa]		

Seq. No.	27409	Seq. ID	OJ000150_22.0124.C66
Gene No.	56698	Strand	-
Start	1	End	760
Name	OJ000150_22.0124.C66.o1.gs	Method	GENSCAN
Start	294	End	355
GI	none	Score	.91
Exons	294..355		

Seq. No.	27409	Seq. ID	OJ000150_22.0124.C66
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Gene No.	56698	Strand	-
Start	1	End	760
Name	OJ000150_22.0124.C66.o1.tw	Method	TBLASTX:Wheat
Start	585	End	701
GI	none	Score	172
Exons	585..695, 597..701		

Seq. No.	27410	Seq. ID	OJ000150_22.0124.C67
Gene No.	56699	Strand	-
Start	1	End	519
Name	OJ000150_22.0124.C67.o1.np	Method	AAT/NAP
Start	1	End	415
GI	6630696	Score	460
Exons	1..415		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27410	Seq. ID	OJ000150_22.0124.C67
Gene No.	56699	Strand	-
Start	1	End	519
Name	OJ000150_22.0124.C67.o1.tm	Method	TBLASTX:Maize
Start	62	End	372
GI	none	Score	140
Exons	62..307, 64..372		

Seq. No.	27410	Seq. ID	OJ000150_22.0124.C67
Gene No.	56699	Strand	-
Start	1	End	519
Name	OJ000150_22.0124.C67.o1.tw	Method	TBLASTX:Wheat
Start	124	End	519
GI	none	Score	119
Exons	124..384, 126..305, 131..316, 385..519		

Seq. No.	27411	Seq. ID	OJ000150_22.0124.C73
Gene No.	56700	Strand	-
Start	150	End	611
Name	OJ000150_22.0124.C73.o1.gs	Method	GENSCAN
Start	150	End	611
GI	none	Score	.88
Exons	150..611		

Seq. No.	27412	Seq. ID	OJ000150_22.0124.C75
Gene No.	56701	Strand	+
Start	1	End	1134
Name	OJ000150_22.0124.C75.o1.np	Method	AAT/NAP
Start	1	End	1134
GI	6907086	Score	1058
Exons	1..675, 733..979, 1010..1134		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27412	Seq. ID	OJ000150_22.0124.C75
Gene No.	56701	Strand	+
Start	1	End	1134
Name	OJ000150_22.0124.C75.o1.gs	Method	GENSCAN
Start	125	End	658
GI	none	Score	.98

Exons 125..658

Seq. No.	27413	Seq. ID	OJ000150_22.0124.C79
Gene No.	56702	Strand	-
Start	115	End	224
Name	OJ000150_22.0124.C79.ol.gs	Method	GENSCAN
Start	115	End	224
GI	none	Score	.97
Exons	115..224		

Seq. No.	27414	Seq. ID	OJ000150_22.0124.C82
Gene No.	56703	Strand	+
Start	1	End	519
Name	OJ000150_22.0124.C82.ol.np	Method	AAT/NAP
Start	1	End	519
GI	5777623	Score	198
Exons	1..167, 418..519		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	27414	Seq. ID	OJ000150_22.0124.C82
Gene No.	56703	Strand	+
Start	1	End	519
Name	OJ000150_22.0124.C82.ol.gs	Method	GENSCAN
Start	121	End	407
GI	none	Score	.97
Exons	121..407		

Seq. No.	27415	Seq. ID	OJ000150_22.0124.C83
Gene No.	56704	Strand	-
Start	116	End	256
Name	OJ000150_22.0124.C83.ol.gs	Method	GENSCAN
Start	116	End	256
GI	none	Score	.72
Exons	116..256		

Seq. No.	27416	Seq. ID	OJ000150_22.0124.C84
Gene No.	56705	Strand	-
Start	352	End	1025
Name	OJ000150_22.0124.C84.ol.gp	Method	AAT/GAP
Start	352	End	1025
GI	none	Score	644
Exons	352..627, 913..1025		

Seq. No.	27417	Seq. ID	OJ000150_22.0124.C86
Gene No.	56706	Strand	+
Start	4197	End	4431
Name	OJ000150_22.0124.C86.ol.gp	Method	AAT/GAP
Start	4197	End	4431
GI	5867_1.R1084	Score	136
Exons	4197..4228, 4334..4431		
GI Descrip.	'464986/sp P35132 UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD'9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B)'>gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_(Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]		

Seq. No.	27417	Seq. ID	OJ000150_22.0124.C86
Gene No.	56707	Strand	+
Start	4334	End	4407
Name	OJ000150_22.0124.C86.o3.gp	Method	AAT/GAP
Start	4334	End	4407
GI	LIB3431-004-P1-K1-G12	Score	98
Exons	4334..4407		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	27417	Seq. ID	OJ000150_22.0124.C86
Gene No.	56708	Strand	+
Start	8519	End	10618
Name	OJ000150_22.0124.C86.o4.gp	Method	AAT/GAP
Start	8422	End	8923
GI	LIB3477-009-P1-K1-E12	Score	968
Exons	8422..8923		
GI Descrip.	'4544462/gb AAD22369.1 AC006580_1 3.0e-18 (AC006580) putative NAM protein [Arabidopsis thaliana]'		

Seq. No.	27417	Seq. ID	OJ000150_22.0124.C86
Gene No.	56708	Strand	+
Start	8519	End	10618
Name	OJ000150_22.0124.C86.o2.gs	Method	GENSCAN
Start	8519	End	10304
GI	none	Score	.52
Exons	8519..8771, 8883..9271, 9774..10304		

Seq. No.	27417	Seq. ID	OJ000150_22.0124.C86
Gene No.	56708	Strand	+
Start	8519	End	10618
Name	OJ000150_22.0124.C86.o2.np	Method	AAT/NAP
Start	8579	End	10618
GI	4544462	Score	524
Exons	8579..8775, 8890..9171, 9766..9866, 10514..10618		
GI Descrip.	(AC006580) NAM (no apical meristem)-like protein [Arabidopsis thaliana]		

Seq. No.	27417	Seq. ID	OJ000150_22.0124.C86
Gene No.	56709	Strand	-
Start	183	End	6450
Name	OJ000150_22.0124.C86.o1.np	Method	AAT/NAP
Start	183	End	3836
GI	4680183	Score	4115
Exons	183..718, 806..848, 1344..3836		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	27417	Seq. ID	OJ000150_22.0124.C86
Gene No.	56709	Strand	-
Start	183	End	6450
Name	OJ000150_22.0124.C86.o1.gs	Method	GENSCAN
Start	297	End	6450
GI	none	Score	.75
Exons	297..795, 892..2614, 2741..3106, 3170..3453, 3571..3884, 6382..6450		

Seq. No. 27417  
 Gene No. 56709  
 Start 183  
 Name OJ000150\_22.0124.C86.o1.tm  
 Start 381  
 GI none  
 Exons 381..737, 391..696

Seq. ID OJ000150\_22.0124.C86  
 Strand -  
 End 6450  
 Method TBLASTX:Maize  
 End 737  
 Score 189

Seq. No. 27417  
 Gene No. 56709  
 Start 183  
 Name OJ000150\_22.0124.C86.o2.tw  
 Start 411  
 GI none  
 Exons 411..746, 412..714

Seq. ID OJ000150\_22.0124.C86  
 Strand -  
 End 6450  
 Method TBLASTX:Wheat  
 End 746  
 Score 199

Seq. No. 27417  
 Gene No. 56709  
 Start 183  
 Name OJ000150\_22.0124.C86.o2.ts  
 Start 462  
 GI none  
 Exons 462..596, 606..827

Seq. ID OJ000150\_22.0124.C86  
 Strand -  
 End 6450  
 Method TBLASTX:Soybean  
 End 827  
 Score 129

Seq. No. 27417  
 Gene No. 56709  
 Start 183  
 Name OJ000150\_22.0124.C86.o1.tw  
 Start 747  
 GI none  
 Exons 747..1040, 751..912, 1087..1323, 1089..1319, 1368..1544

Seq. ID OJ000150\_22.0124.C86  
 Strand -  
 End 6450  
 Method TBLASTX:Wheat  
 End 1544  
 Score 116

Seq. No. 27417  
 Gene No. 56709  
 Start 183  
 Name OJ000150\_22.0124.C86.o3.tw  
 Start 2124  
 GI none  
 Exons 2124..2525

Seq. ID OJ000150\_22.0124.C86  
 Strand -  
 End 6450  
 Method TBLASTX:Wheat  
 End 2525  
 Score 269

Seq. No. 27417  
 Gene No. 56710  
 Start 8636  
 Name OJ000150\_22.0124.C86.o1.tc  
 Start 8636  
 GI none  
 Exons 8636..8782, 8900..9016, 8900..8971, 8968..9006, 9044..9139

Seq. ID OJ000150\_22.0124.C86  
 Strand -  
 End 9165  
 Method TBLASTX:Cress  
 End 9139  
 Score 170

Seq. No. 27417  
 Gene No. 56710  
 Start 8636  
 Name OJ000150\_22.0124.C86.o1.ts  
 Start 8636  
 GI none  
 Exons 8636..8776, 8885..9025, 9026..9139

Seq. ID OJ000150\_22.0124.C86  
 Strand -  
 End 9165  
 Method TBLASTX:Soybean  
 End 9139  
 Score 178

Seq. No. 27417

Seq. ID OJ000150\_22.0124.C86

Gene No.	56710	Strand	
Start	8636	End	9165
Name	OJ000150_22.0124.C86.o2.tm	Method	TBLASTX:Maize
Start	8648	End	9159
GI	none	Score	130
Exons	8648..8782, 8885..9046, 8887..8988, 8900..8992, 9053..9148, 9055..9159, 9062..9139		

Seq. No.	27417	Seq. ID	OJ000150_22.0124.C86
Gene No.	56710	Strand	
Start	8636	End	9165
Name	OJ000150_22.0124.C86.o4.tw	Method	TBLASTX:Wheat
Start	8900	End	9165
GI	none	Score	138
Exons	8900..9016, 9044..9148, 9055..9165		

Seq. No.	27418	Seq. ID	OJ000150_22.0124.C87
Gene No.	56711	Strand	+
Start	406	End	1086
Name	OJ000150_22.0124.C87.o1.gs	Method	GENSCAN
Start	406	End	1086
GI	none	Score	.77
Exons	406..411, 851..895, 979..1086		

Seq. No.	27418	Seq. ID	OJ000150_22.0124.C87
Gene No.	56712	Strand	+
Start	4095	End	4870
Name	OJ000150_22.0124.C87.o3.gs	Method	GENSCAN
Start	4095	End	4870
GI	none	Score	.9
Exons	4095..4129, 4207..4870		

Seq. No.	27418	Seq. ID	OJ000150_22.0124.C87
Gene No.	56713	Strand	-
Start	2058	End	4937
Name	OJ000150_22.0124.C87.o2.tm	Method	TBLASTX:Maize
Start	1950	End	2332
GI	none	Score	50
Exons	1950..2012, 1955..2005, 2013..2084, 2073..2156, 2084..2143, 2085..2150, 2257..2331, 2258..2332, 2258..2332		

Seq. No.	27418	Seq. ID	OJ000150_22.0124.C87
Gene No.	56713	Strand	-
Start	2058	End	4937
Name	OJ000150_22.0124.C87.o1.np	Method	AAT/NAP
Start	2058	End	4937
GI	3201611	Score	210
Exons	2058..2129, 2243..2341, 2421..2565, 2650..2860, 2957..3056, 4883..4937		

GI Descrip. (AC004669) unknown protein [Arabidopsis thaliana]

Seq. No.	27418	Seq. ID	OJ000150_22.0124.C87
Gene No.	56713	Strand	-
Start	2058	End	4937
Name	OJ000150_22.0124.C87.o1.tm	Method	TBLASTX:Maize
Start	2597	End	2792
GI	none	Score	172

Exons 2597..2791, 2598..2792, 2602..2790

Seq. No.	27419	Seq. ID	OJ000150_22.0124.C88
Gene No.	56714	Strand	-
Start	855	End	2110
Name	OJ000150_22.0124.C88.o1.gs	Method	GENSCAN
Start	855	End	2015
GI	none	Score	.91
Exons	855..2015		

Seq. No.	27419	Seq. ID	OJ000150_22.0124.C88
Gene No.	56714	Strand	-
Start	855	End	2110
Name	OJ000150_22.0124.C88.o1.np	Method	AAT/NAP
Start	1034	End	2110
GI	119714	Score	117
Exons	1034..1166, 1208..1397, 1637..1734, 1776..2110		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi 82169 pir  S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi 19867 emb CAA32090  (X13885) extensin (AA 1-620) [Nicotiana tabacum]		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56715	Strand	+
Start	5043	End	7751
Name	OJ000150_22.0124.C89.o2.gs	Method	GENSCAN
Start	5043	End	7751
GI	none	Score	.93
Exons	5043..5309, 5976..6079, 6274..6384, 6463..6613, 7154..7428, 7538..7751		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56715	Strand	+
Start	5043	End	7751
Name	OJ000150_22.0124.C89.o3.gp	Method	AAT/GAP
Start	5575	End	6100
GI	uC-osflcyp169f03b1	Score	971
Exons	5575..6100		
GI Descrip.	'5441872/dbj AP000366.1 AP000366 1.0e-17 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56715	Strand	+
Start	5043	End	7751
Name	OJ000150_22.0124.C89.o4.gp	Method	AAT/GAP
Start	7004	End	7195
GI	none	Score	384
Exons	7004..7195		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56716	Strand	+
Start	17471	End	17632
Name	OJ000150_22.0124.C89.o8.gp	Method	AAT/GAP
Start	17471	End	17632
GI	533_1.R1084	Score	173
Exons	17471..17556, 17579..17632		
GI Descrip.	'113172/sp P15543 ACP3_HORVU 9.0e-52 ACYL CARRIER PROTEIN III		

PRECURSOR (ACP III) >gi\_100561\_pir\_S17928 acyl carrier protein  
3 - barley >gi\_166971 (M58754) acyl carrier protein III [Hordeum  
vulgare]'

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56717	Strand	+
Start	18006	End	18278
Name	OJ000150_22.0124.C89.o9.gp	Method	AAT/GAP
Start	18006	End	18278
GI	5816500	Score	354
Exons	18006..18278		
GI Descrip.	5091496/dbj AB023482.2 AB023482 4.0e-44 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56718	Strand	-
Start	590	End	935
Name	OJ000150_22.0124.C89.o1.gp	Method	AAT/GAP
Start	590	End	935
GI	3769263	Score	664
Exons	590..935		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56719	Strand	-
Start	910	End	2819
Name	OJ000150_22.0124.C89.o1.np	Method	AAT/NAP
Start	881	End	2786
GI	3298546	Score	419
Exons	881..1247, 2606..2786		
GI Descrip.	(AC004681) unknown protein [Arabidopsis thaliana]		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56719	Strand	-
Start	910	End	2819
Name	OJ000150_22.0124.C89.o1.gs	Method	GENSCAN
Start	910	End	2819
GI	none	Score	.88
Exons	910..1247, 2606..2819		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56719	Strand	-
Start	910	End	2819
Name	OJ000150_22.0124.C89.o2.gp	Method	AAT/GAP
Start	1012	End	2733
GI	LIB3433-003-Q6-K6-A1	Score	677
Exons	1012..1247, 2606..2733		
GI Descrip.	'3298546 3.0e-20 (AC004681) unknown protein [Arabidopsis thaliana]'		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o2.ts	Method	TBLASTX:Soybean
Start	919	End	2723
GI	none	Score	212
Exons	919..1200, 926..1108, 2517..2603, 2694..2723		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o6.tm	Method	TBLASTX:Maize
Start	937	End	1249
GI	none	Score	228
Exons	937..1194, 938..1114, 939..1202, 1207..1248, 1208..1249		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o3.tc	Method	TBLASTX:Cress
Start	940	End	1194
GI	none	Score	115
Exons	940..1194, 947..1114		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o10.tm	Method	TBLASTX:Maize
Start	5228	End	6545
GI	none	Score	125
Exons	5228..5305, 5229..5306, 5974..6078, 5985..6077, 5987..6082, 6271..6384, 6273..6371, 6275..6379, 6456..6545, 6462..6542, 6494..6544		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o3.tm	Method	TBLASTX:Maize
Start	7150	End	7747
GI	none	Score	158
Exons	7150..7263, 7151..7273, 7272..7439, 7275..7376, 7301..7444, 7376..7429, 7535..7618, 7536..7616, 7536..7622, 7537..7623, 7610..7663, 7614..7742, 7651..7731, 7709..7747		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o2.np	Method	AAT/NAP
Start	7565	End	15102
GI	4467124	Score	792
Exons	7565..7689, 9481..11012, 13387..13605, 15074..15102		
GI Descrip.	(AL035538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o5.gp	Method	AAT/GAP
Start	8074	End	9119
GI	none	Score	941
Exons	8074..8349, 8635..8715, 8807..8878, 9018..9119		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o9.tm	Method	TBLASTX:Maize



Start	8225	End	9253
GI	none	Score	125
Exons	8225..8311, 8230..8319, 8235..8309, 8239..8310, 8317..8349, 8318..8350, 8698..8718, 8804..8884, 8808..8885, 9006..9053, 9019..9054, 9057..9125, 9066..9125, 9197..9253		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o3.gs	Method	GENSCAN
Start	8631	End	13884
GI	none	Score	.75
Exons	8631..8806, 9218..11279, 11525..11584, 12862..13884		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o6.gp	Method	AAT/GAP
Start	9275	End	9704
GI	none	Score	852
Exons	9275..9704		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o1.tm	Method	TBLASTX:Maize
Start	9278	End	9800
GI	none	Score	59
Exons	9278..9334, 9278..9346, 9361..9582, 9369..9581, 9381..9587, 9566..9784, 9585..9800, 9588..9797		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o7.tm	Method	TBLASTX:Maize
Start	9801	End	10067
GI	none	Score	233
Exons	9801..10055, 9801..10067		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o1.tw	Method	TBLASTX:Wheat
Start	10071	End	10478
GI	none	Score	226
Exons	10071..10478		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o2.tm	Method	TBLASTX:Maize
Start	10071	End	10509
GI	none	Score	174
Exons	10071..10235, 10073..10225, 10105..10236, 10215..10409, 10230..10373, 10231..10380, 10368..10508, 10368..10508, 10369..10509, 10405..10509		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o1.ts	Method	TBLASTX:Soybean
Start	10092	End	10650
GI	none	Score	128
Exons	10092..10226, 10320..10649, 10345..10650, 10504..10650		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o1.tc	Method	TBLASTX:Cress
Start	10395	End	10724
GI	none	Score	208
Exons	10395..10724		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o5.tm	Method	TBLASTX:Maize
Start	10518	End	10766
GI	none	Score	255
Exons	10518..10766, 10526..10765		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o4.tm	Method	TBLASTX:Maize
Start	10926	End	11288
GI	none	Score	206
Exons	10926..11288, 10928..11188, 10929..11288		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o7.gp	Method	AAT/GAP
Start	13125	End	13576
GI	4969151	Score	857
Exons	13125..13576		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o3.np	Method	AAT/NAP
Start	13985	End	18055
GI	6686396	Score	269
Exons	13985..14031, 15552..15934, 18024..18055		
GI Descrip.	(AC007234) F1E22.10 [Arabidopsis thaliana]		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o4.gs	Method	GENSCAN
Start	15221	End	16036
GI	none	Score	.81
Exons	15221..15436, 15469..15801, 15803..16036		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o2.tc	Method	TBLASTX:Cress
Start	15553	End	15756
GI	none	Score	203
Exons	15553..15756		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o8.tm	Method	TBLASTX:Maize
Start	15553	End	15952
GI	none	Score	109
Exons	15553..15756, 15634..15795, 15803..15937, 15809..15952		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o3.ts	Method	TBLASTX:Soybean
Start	15553	End	15934
GI	none	Score	104
Exons	15553..15813, 15803..15934		

Seq. No.	27420	Seq. ID	OJ000150_22.0124.C89
Gene No.	56720	Strand	-
Start	7565	End	18215
Name	OJ000150_22.0124.C89.o5.gs	Method	GENSCAN
Start	16375	End	18215
GI	none	Score	.87
Exons	16375..16458, 17158..17303, 18209..18215		

Seq. No.	27421	Seq. ID	OJ000150_22.0124.C90
Gene No.	56721	Strand	+
Start	2635	End	9768
Name	OJ000150_22.0124.C90.o1.gs	Method	GENSCAN
Start	2635	End	9524
GI	none	Score	.81
Exons	2635..2738, 2854..2911, 3056..3159, 3191..3314, 4174..4226, 4624..4955, 4989..5105, 5715..5875, 6653..6850, 7561..7744, 7825..7987, 8446..8506, 8528..8706, 9446..9524		

Seq. No.	27421	Seq. ID	OJ000150_22.0124.C90
Gene No.	56721	Strand	+
Start	2635	End	9768
Name	OJ000150_22.0124.C90.o1.gp	Method	AAT/GAP
Start	8449	End	9768
GI	1382_1.R1084	Score	886
Exons	8449..8527, 8654..8706, 8844..8910, 9463..9768		
GI Descrip.	'3402817/emb CAA07704  3.0e-21 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	27421	Seq. ID	OJ000150_22.0124.C90
Gene No.	56722	Strand	-
Start	10194	End	10974
Name	OJ000150_22.0124.C90.o2.gp	Method	AAT/GAP
Start	9862	End	10974

GI 896\_1.R1084 Score 1894  
 Exons 9862..10050, 10160..10974  
 GI Descrip. '3402817/emb|CAA07704| 3.0e-21 (AJ007829) lacZ'' [Cloning vector pGreen]'

Seq. No. 27421 Seq. ID OJ000150\_22.0124.C90  
 Gene No. 56722 Strand -  
 Start 10194 End 10974  
 Name OJ000150\_22.0124.C90.o1.tw Method TBLASTX:Wheat  
 Start 10194 End 10485  
 GI none Score 399  
 Exons 10194..10484, 10198..10485

Seq. No. 27421 Seq. ID OJ000150\_22.0124.C90  
 Gene No. 56722 Strand -  
 Start 10194 End 10974  
 Name OJ000150\_22.0124.C90.o2.gs Method GENSCAN  
 Start 10194 End 10904  
 GI none Score .99  
 Exons 10194..10904

Seq. No. 27421 Seq. ID OJ000150\_22.0124.C90  
 Gene No. 56722 Strand -  
 Start 10194 End 10974  
 Name OJ000150\_22.0124.C90.o1.np Method AAT/NAP  
 Start 10197 End 10904  
 GI 3885892 Score 1181  
 Exons 10197..10904  
 GI Descrip. (AF093634) photosystem-1 F subunit precursor [Oryza sativa]

Seq. No. 27421 Seq. ID OJ000150\_22.0124.C90  
 Gene No. 56722 Strand -  
 Start 10194 End 10974  
 Name OJ000150\_22.0124.C90.o1.tm Method TBLASTX:Maize  
 Start 10197 End 10664  
 GI none Score 665  
 Exons 10197..10664, 10198..10662

Seq. No. 27421 Seq. ID OJ000150\_22.0124.C90  
 Gene No. 56722 Strand -  
 Start 10194 End 10974  
 Name OJ000150\_22.0124.C90.o1.tc Method TBLASTX:Cress  
 Start 10201 End 10670  
 GI none Score 437  
 Exons 10201..10662, 10212..10670

Seq. No. 27421 Seq. ID OJ000150\_22.0124.C90  
 Gene No. 56722 Strand -  
 Start 10194 End 10974  
 Name OJ000150\_22.0124.C90.o1.ts Method TBLASTX:Soybean  
 Start 10212 End 10670  
 GI none Score 457  
 Exons 10212..10670, 10213..10662

Seq. No. 27422 Seq. ID OJ000150\_22.0124.C91  
 Gene No. 56723 Strand +  
 Start 72 End 1246

Name	OJ000150_22.0124.C91.o1.gs	Method	GENSCAN
Start	72	End	1246
GI	none	Score	.49
Exons	72..119, 829..1026, 1058..1246		

Seq. No.	27423	Seq. ID	OJ000150_29.0124.C1
Gene No.	56724	Strand	-
Start	670	End	906
Name	OJ000150_29.0124.C1.o1.tw	Method	TBLASTX:Wheat
Start	181	End	510
GI	none	Score	144
Exons	181..267, 319..510		

Seq. No.	27423	Seq. ID	OJ000150_29.0124.C1
Gene No.	56724	Strand	-
Start	670	End	906
Name	OJ000150_29.0124.C1.o1.tm	Method	TBLASTX:Maize
Start	235	End	624
GI	none	Score	94
Exons	235..267, 334..624, 488..616		

Seq. No.	27423	Seq. ID	OJ000150_29.0124.C1
Gene No.	56724	Strand	-
Start	670	End	906
Name	OJ000150_29.0124.C1.o1.gs	Method	GENSCAN
Start	670	End	906
GI	none	Score	.94
Exons	670..906		

Seq. No.	27424	Seq. ID	OJ000150_29.0124.C2
Gene No.	56725	Strand	+
Start	90	End	969
Name	OJ000150_29.0124.C2.o1.gs	Method	GENSCAN
Start	90	End	969
GI	none	Score	.5
Exons	90..112, 913..969		

Seq. No.	27425	Seq. ID	OJ000150_29.0124.C3
Gene No.	56726	Strand	+
Start	731	End	844
Name	OJ000150_29.0124.C3.o1.gs	Method	GENSCAN
Start	731	End	844
GI	none	Score	.74
Exons	731..844		

Seq. No.	27426	Seq. ID	OJ000150_29.0124.C4
Gene No.	56727	Strand	+
Start	1	End	774
Name	OJ000150_29.0124.C4.o1.np	Method	AAT/NAP
Start	1	End	774
GI	4206306	Score	695
Exons	1..774		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	27426	Seq. ID	OJ000150_29.0124.C4
Gene No.	56727	Strand	+
Start	1	End	774

Name OJ000150\_29.0124.C4.o2.tm  
 Start 7  
 GI none  
 Exons 7..228, 87..227

Method TBLASTX:Maize  
 End 228  
 Score 209

Seq. No. 27426  
 Gene No. 56727  
 Start 1  
 Name OJ000150\_29.0124.C4.o1.gs  
 Start 61  
 GI none  
 Exons 61..550

Seq. ID OJ000150\_29.0124.C4  
 Strand +  
 End 774  
 Method GENSCAN  
 End 550  
 Score .47

Seq. No. 27426  
 Gene No. 56727  
 Start 1  
 Name OJ000150\_29.0124.C4.o1.tw  
 Start 70  
 GI none  
 Exons 70..459, 114..281, 336..455

Seq. ID OJ000150\_29.0124.C4  
 Strand +  
 End 774  
 Method TBLASTX:Wheat  
 End 459  
 Score 254

Seq. No. 27426  
 Gene No. 56727  
 Start 1  
 Name OJ000150\_29.0124.C4.o1.tm  
 Start 229  
 GI none  
 Exons 229..591, 321..383, 402..590, 415..606

Seq. ID OJ000150\_29.0124.C4  
 Strand +  
 End 774  
 Method TBLASTX:Maize  
 End 606  
 Score 352

Seq. No. 27426  
 Gene No. 56727  
 Start 1  
 Name OJ000150\_29.0124.C4.o1.ts  
 Start 232  
 GI none  
 Exons 232..372, 261..365, 382..603

Seq. ID OJ000150\_29.0124.C4  
 Strand +  
 End 774  
 Method TBLASTX:Soybean  
 End 603  
 Score 89

Seq. No. 27427  
 Gene No. 56728  
 Start 426  
 Name OJ000150\_29.0124.C7.o1.gs  
 Start 426  
 GI none  
 Exons 426..613

Seq. ID OJ000150\_29.0124.C7  
 Strand +  
 End 613  
 Method GENSCAN  
 End 613  
 Score .96

Seq. No. 27428  
 Gene No. 56729  
 Start 71  
 Name OJ000150\_29.0124.C8.o1.gs  
 Start 71  
 GI none  
 Exons 71..168

Seq. ID OJ000150\_29.0124.C8  
 Strand +  
 End 168  
 Method GENSCAN  
 End 168  
 Score .78

Seq. No. 27429  
 Gene No. 56730  
 Start 1  
 Name OJ000150\_29.0124.C9.o1.np

Seq. ID OJ000150\_29.0124.C9  
 Strand -  
 End 707  
 Method AAT/NAP

Start	1	End	707
GI	5902445	Score	758
Exons	1..707		
GI Descrip.	(AB030283) GAG-POL precursor_[Oryza sativa]		

Seq. No.	27429	Seq. ID	OJ000150_29.0124.C9
Gene No.	56730	Strand	-
Start	1	End	707
Name	OJ000150_29.0124.C9.o2.tm	Method	TBLASTX:Maize
Start	1	End	354
GI	none	Score	91
Exons	1..354, 11..193, 162..320		

Seq. No.	27429	Seq. ID	OJ000150_29.0124.C9
Gene No.	56730	Strand	-
Start	1	End	707
Name	OJ000150_29.0124.C9.o1.gs	Method	GENSCAN
Start	61	End	600
GI	none	Score	.42
Exons	61..600		

Seq. No.	27429	Seq. ID	OJ000150_29.0124.C9
Gene No.	56730	Strand	-
Start	1	End	707
Name	OJ000150_29.0124.C9.o1.ts	Method	TBLASTX:Soybean
Start	85	End	321
GI	none	Score	69
Exons	85..321, 86..193		

Seq. No.	27429	Seq. ID	OJ000150_29.0124.C9
Gene No.	56730	Strand	-
Start	1	End	707
Name	OJ000150_29.0124.C9.o1.tw	Method	TBLASTX:Wheat
Start	94	End	513
GI	none	Score	96
Exons	94..513, 95..196, 127..513		

Seq. No.	27429	Seq. ID	OJ000150_29.0124.C9
Gene No.	56730	Strand	-
Start	1	End	707
Name	OJ000150_29.0124.C9.o1.tm	Method	TBLASTX:Maize
Start	382	End	650
GI	none	Score	67
Exons	382..543, 532..645, 542..646, 543..650, 550..648		

Seq. No.	27429	Seq. ID	OJ000150_29.0124.C9
Gene No.	56730	Strand	-
Start	1	End	707
Name	OJ000150_29.0124.C9.o2.tw	Method	TBLASTX:Wheat
Start	514	End	656
GI	none	Score	46
Exons	514..546, 515..547, 549..656, 550..648		

Seq. No.	27430	Seq. ID	OJ000150_29.0124.C10
Gene No.	56731	Strand	+
Start	1	End	321
Name	OJ000150_29.0124.C10.o1.np	Method	AAT/NAP

Start	1	End	264
GI	3510249	Score	323
Exons	1..264		
GI Descrip.	(AC005310) unknown protein [Arabidopsis thaliana]		

Seq. No.	27430	Seq. ID	OJ000150_29.0124.C10
Gene No.	56731	Strand	+
Start	1	End	321
Name	OJ000150_29.0124.C10.o1.ts	Method	TBLASTX:Soybean
Start	1	End	249
GI	none	Score	128
Exons	1..111, 3..110, 130..249		

Seq. No.	27430	Seq. ID	OJ000150_29.0124.C10
Gene No.	56731	Strand	+
Start	1	End	321
Name	OJ000150_29.0124.C10.o1.tc	Method	TBLASTX:Cress
Start	1	End	252
GI	none	Score	141
Exons	1..132, 3..116, 129..245, 130..252		

Seq. No.	27430	Seq. ID	OJ000150_29.0124.C10
Gene No.	56731	Strand	+
Start	1	End	321
Name	OJ000150_29.0124.C10.o1.tm	Method	TBLASTX:Maize
Start	21	End	252
GI	none	Score	141
Exons	21..116, 22..132, 120..248, 121..252		

Seq. No.	27430	Seq. ID	OJ000150_29.0124.C10
Gene No.	56731	Strand	+
Start	1	End	321
Name	OJ000150_29.0124.C10.o1.gs	Method	GENSCAN
Start	40	End	321
GI	none	Score	.95
Exons	40..321		

Seq. No.	27431	Seq. ID	OJ000150_29.0124.C12
Gene No.	56732	Strand	+
Start	76	End	187
Name	OJ000150_29.0124.C12.o1.gs	Method	GENSCAN
Start	76	End	187
GI	none	Score	.98
Exons	76..187		

Seq. No.	27432	Seq. ID	OJ000150_29.0124.C13
Gene No.	56733	Strand	+
Start	1	End	375
Name	OJ000150_29.0124.C13.o1.np	Method	AAT/NAP
Start	1	End	375
GI	6063554	Score	238
Exons	1..98, 203..375		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27432	Seq. ID	OJ000150_29.0124.C13
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Gene No.	56734	Strand	-
Start	106	End	1381
Name	OJ000150_29.0124.C13.ol.gs	Method	GENSCAN
Start	106	End	1381
GI	none	Score	.93
Exons	106..230, 434..536, 593..794, 1010..1381		

Seq. No.	27432	Seq. ID	OJ000150_29.0124.C13
Gene No.	56734	Strand	-
Start	106	End	1381
Name	OJ000150_29.0124.C13.ol.gp	Method	AAT/GAP
Start	733	End	989
GI	61605_3.R1084	Score	438
Exons	733..989		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	27433	Seq. ID	OJ000150_29.0124.C14
Gene No.	56735	Strand	-
Start	14	End	1012
Name	OJ000150_29.0124.C14.ol.gs	Method	GENSCAN
Start	14	End	1012
GI	none	Score	.52
Exons	14..74, 927..1012		

Seq. No.	27434	Seq. ID	OJ000150_29.0124.C15
Gene No.	56736	Strand	+
Start	120	End	622
Name	OJ000150_29.0124.C15.ol.gs	Method	GENSCAN
Start	120	End	622
GI	none	Score	.9
Exons	120..295, 604..622		

Seq. No.	27435	Seq. ID	OJ000150_29.0124.C16
Gene No.	56737	Strand	+
Start	687	End	818
Name	OJ000150_29.0124.C16.ol.gs	Method	GENSCAN
Start	687	End	818
GI	none	Score	.53
Exons	687..818		

Seq. No.	27436	Seq. ID	OJ000150_29.0124.C19
Gene No.	56738	Strand	-
Start	1	End	685
Name	OJ000150_29.0124.C19.ol.np	Method	AAT/NAP
Start	1	End	400
GI	5922636	Score	115
Exons	1..57, 267..400		
GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016869 dbj BAA85212.1  (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27436	Seq. ID	OJ000150_29.0124.C19
Gene No.	56738	Strand	-
Start	1	End	685

Name	OJ000150_29.0124.C19.ol.gs	Method	GENSCAN
Start	266	End	685
GI	none	Score	1
Exons	266..685		
Seq. No.	27437	Seq. ID	OJ000150_29.0124.C24
Gene No.	56739	Strand	-
Start	203	End	1405
Name	OJ000150_29.0124.C24.ol.gs	Method	GENSCAN
Start	203	End	1405
GI	none	Score	.82
Exons	203..394, 541..691, 774..1405		
Seq. No.	27438	Seq. ID	OJ000150_29.0124.C25
Gene No.	56740	Strand	-
Start	53	End	664
Name	OJ000150_29.0124.C25.ol.gs	Method	GENSCAN
Start	53	End	664
GI	none	Score	.69
Exons	53..664		
Seq. No.	27439	Seq. ID	OJ000150_29.0124.C27
Gene No.	56741	Strand	-
Start	41	End	240
Name	OJ000150_29.0124.C27.ol.gp	Method	AAT/GAP
Start	41	End	240
GI	61605_3.R1084	Score	318
Exons	41..240		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		
Seq. No.	27439	Seq. ID	OJ000150_29.0124.C27
Gene No.	56742	Strand	-
Start	595	End	686
Name	OJ000150_29.0124.C27.ol.np	Method	AAT/NAP
Start	595	End	686
GI	6063554	Score	139
Exons	595..686		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	27440	Seq. ID	OJ000150_29.0124.C29
Gene No.	56743	Strand	+
Start	1	End	3318
Name	OJ000150_29.0124.C29.ol.np	Method	AAT/NAP
Start	1	End	2076
GI	100484	Score	540
Exons	1..314, 376..773, 2049..2076		
GI Descrip.	hypothetical protein - garden snapdragon		
Seq. No.	27440	Seq. ID	OJ000150_29.0124.C29
Gene No.	56743	Strand	+
Start	1	End	3318
Name	OJ000150_29.0124.C29.ol.ts	Method	TBLASTX:Soybean
Start	1	End	210
GI	none	Score	222

Exons 1..210, 6..131

Seq. No.	27440	Seq. ID	OJ000150_29.0124.C29
Gene No.	56743	Strand	+
Start	1	End	3318
Name	OJ000150_29.0124.C29.o1.gs	Method	GENSCAN
Start	181	End	3318
GI	none	Score	.59
Exons	181..393, 1083..1124, 1538..1625, 2433..2564, 2653..2985, 3199..3318		

Seq. No.	27440	Seq. ID	OJ000150_29.0124.C29
Gene No.	56743	Strand	+
Start	1	End	3318
Name	OJ000150_29.0124.C29.o1.tw	Method	TBLASTX:Wheat
Start	377	End	736
GI	none	Score	139
Exons	377..580, 379..579, 616..705, 617..736		

Seq. No.	27441	Seq. ID	OJ000150_29.0124.C30
Gene No.	56744	Strand	+
Start	213	End	1853
Name	OJ000150_29.0124.C30.o1.gs	Method	GENSCAN
Start	213	End	1853
GI	none	Score	.5
Exons	213..400, 478..1853		

Seq. No.	27442	Seq. ID	OJ000150_29.0124.C31
Gene No.	56745	Strand	+
Start	290	End	1384
Name	OJ000150_29.0124.C31.o1.gs	Method	GENSCAN
Start	290	End	1384
GI	none	Score	.68
Exons	290..439, 873..956, 1126..1260, 1304..1384		

Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56746	Strand	+
Start	1180	End	1674
Name	OJ000150_29.0124.C32.o1.np	Method	AAT/NAP
Start	1180	End	1674
GI	5902448	Score	421
Exons	1180..1674		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56747	Strand	+
Start	10528	End	10770
Name	OJ000150_29.0124.C32.o3.gs	Method	GENSCAN
Start	10528	End	10770
GI	none	Score	.42
Exons	10528..10770		

Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56748	Strand	+
Start	11886	End	15093
Name	OJ000150_29.0124.C32.o4.gs	Method	GENSCAN
Start	11886	End	15093

GI none Score .7  
 Exons 11886..12205, 12471..12486, 12529..12876, 12934..13011,  
 13076..13282, 13355..13430, 13519..13582, 13589..14501,  
 14602..15093

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56749 Strand -  
 Start 5499 End 7337  
 Name OJ000150\_29.0124.C32.o2.np Method AAT/NAP  
 Start 5028 End 7262  
 GI 3510250 Score 1472  
 Exons 5028..5052, 5566..7262  
 GI Descrip. (AC005310) unknown protein [Arabidopsis thaliana]

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56749 Strand -  
 Start 5499 End 7337  
 Name OJ000150\_29.0124.C32.o2.gs Method GENSCAN  
 Start 5499 End 7337  
 GI none Score 1  
 Exons 5499..7337

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56750 Strand -  
 Start 13688 End 15592  
 Name OJ000150\_29.0124.C32.o2.tc Method TBLASTX:Cress  
 Start 5568 End 5892  
 GI none Score 109  
 Exons 5568..5690, 5575..5691, 5688..5891, 5704..5892

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56750 Strand -  
 Start 13688 End 15592  
 Name OJ000150\_29.0124.C32.o3.tm Method TBLASTX:Maize  
 Start 5568 End 5751  
 GI none Score 145  
 Exons 5568..5699, 5572..5700, 5688..5750, 5704..5751

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56750 Strand -  
 Start 13688 End 15592  
 Name OJ000150\_29.0124.C32.o2.ts Method TBLASTX:Soybean  
 Start 5571 End 5886  
 GI none Score 150  
 Exons 5571..5690, 5709..5885, 5710..5886

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56750 Strand -  
 Start 13688 End 15592  
 Name OJ000150\_29.0124.C32.o1.tw Method TBLASTX:Wheat  
 Start 5730 End 6074  
 GI none Score 144  
 Exons 5730..5891, 5730..6074, 5731..6072

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56750 Strand -  
 Start 13688 End 15592

Name	OJ000150_29.0124.C32.o1.tm	Method	TBLASTX:Maize
Start	5751	End	6129
GI	none	Score	220
Exons	5751..5954, 5752..5955, 5956..6129, 5958..6128		
Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56750	Strand	-
Start	13688	End	15592
Name	OJ000150_29.0124.C32.o4.ts	Method	TBLASTX:Soybean
Start	5943	End	6284
GI	none	Score	78
Exons	5943..6083, 6087..6176, 6195..6284		
Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56750	Strand	-
Start	13688	End	15592
Name	OJ000150_29.0124.C32.o3.ts	Method	TBLASTX:Soybean
Start	6369	End	6686
GI	none	Score	122
Exons	6369..6686, 6517..6672		
Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56750	Strand	-
Start	13688	End	15592
Name	OJ000150_29.0124.C32.o2.tm	Method	TBLASTX:Maize
Start	6489	End	6908
GI	none	Score	203
Exons	6489..6908, 6526..6900		
Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56750	Strand	-
Start	13688	End	15592
Name	OJ000150_29.0124.C32.o1.tc	Method	TBLASTX:Cress
Start	6582	End	7239
GI	none	Score	88
Exons	6582..6689, 6589..6675, 6723..7238, 6724..7239		
Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56750	Strand	-
Start	13688	End	15592
Name	OJ000150_29.0124.C32.o1.ts	Method	TBLASTX:Soybean
Start	6736	End	7242
GI	none	Score	256
Exons	6736..7242, 6753..7241		
Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56750	Strand	-
Start	13688	End	15592
Name	OJ000150_29.0124.C32.o4.tm	Method	TBLASTX:Maize
Start	8531	End	8920
GI	none	Score	221
Exons	8531..8821, 8539..8667, 8888..8920		
Seq. No.	27443	Seq. ID	OJ000150_29.0124.C32
Gene No.	56750	Strand	-
Start	13688	End	15592
Name	OJ000150_29.0124.C32.o2.tw	Method	TBLASTX:Wheat

Start 8645  
 GI none  
 Exons 8645..8836, 8888..8974

End 8974  
 Score 144

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56750 Strand -  
 Start 13688 End 15592  
 Name OJ000150\_29.0124.C32.o5.tm Method TBLASTX:Maize  
 Start 9111 End 9383  
 GI none Score 173  
 Exons 9111..9287, 9125..9202, 9225..9296, 9282..9383

Seq. No. 27443 Seq. ID OJ000150\_29.0124.C32  
 Gene No. 56750 Strand -  
 Start 13688 End 15592  
 Name OJ000150\_29.0124.C32.o4.np Method AAT/NAP  
 Start 13688 End 15592  
 GI 6322068 Score 40  
 Exons 13688..13848, 15332..15430, 15553..15592  
 GI Descrip. (putative) invovled in control of DNA replication; Simlp  
 gi|731867|sp|P40472|SIM1\_YEAST SIM1 PROTEIN  
 gi|1077757|pir||S49886 probable membrane protein YIL123w - yeast  
 (Saccharomyces cerevisiae) gi|599994|emb|CAA86869| (Z46833)  
 unknown [Saccharomyces cerevisiae]

Seq. No. 27444 Seq. ID OJ000150\_29.0124.C33  
 Gene No. 56751 Strand -  
 Start 144 End 1610  
 Name OJ000150\_29.0124.C33.o1.gs Method GENSCAN  
 Start 144 End 1488  
 GI none Score .71  
 Exons 144..232, 866..1006, 1323..1488

Seq. No. 27444 Seq. ID OJ000150\_29.0124.C33  
 Gene No. 56751 Strand -  
 Start 144 End 1610  
 Name OJ000150\_29.0124.C33.o1.np Method AAT/NAP  
 Start 729 End 1610  
 GI 4206306 Score 635  
 Exons 729..1610  
 GI Descrip. (AF049110) prpol [Zea mays]

Seq. No. 27444 Seq. ID OJ000150\_29.0124.C33  
 Gene No. 56751 Strand -  
 Start 144 End 1610  
 Name OJ000150\_29.0124.C33.o1.tw Method TBLASTX:Wheat  
 Start 738 End 1296  
 GI none Score 101  
 Exons 738..863, 982..1149, 1177..1296

Seq. No. 27444 Seq. ID OJ000150\_29.0124.C33  
 Gene No. 56751 Strand -  
 Start 144 End 1610  
 Name OJ000150\_29.0124.C33.o2.tm Method TBLASTX:Maize  
 Start 985 End 1251  
 GI none Score 42  
 Exons 985..1251, 1010..1069, 1148..1249

Seq. No.	27444	Seq. ID	OJ000150_29.0124.C33
Gene No.	56751	Strand	-
Start	144	End	1610
Name	OJ000150_29.0124.C33.o1.tm	Method	TBLASTX:Maize
Start	1267	End	1552
GI	none	Score	99
Exons	1267..1458, 1282..1551, 1283..1471, 1490..1552		

Seq. No.	27445	Seq. ID	OJ000150_29.0124.C34
Gene No.	56752	Strand	+
Start	709	End	1268
Name	OJ000150_29.0124.C34.o1.gs	Method	GENSCAN
Start	709	End	1268
GI	none	Score	.44
Exons	709..825, 1078..1268		

Seq. No.	27446	Seq. ID	OJ000150_29.0124.C35
Gene No.	56753	Strand	-
Start	77	End	1674
Name	OJ000150_29.0124.C35.o1.np	Method	AAT/NAP
Start	77	End	1674
GI	6063554	Score	281
Exons	77..251, 868..898, 1555..1674		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27446	Seq. ID	OJ000150_29.0124.C35
Gene No.	56753	Strand	-
Start	77	End	1674
Name	OJ000150_29.0124.C35.o1.gp	Method	AAT/GAP
Start	237	End	650
GI	2428185	Score	661
Exons	237..650		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	27446	Seq. ID	OJ000150_29.0124.C35
Gene No.	56753	Strand	-
Start	77	End	1674
Name	OJ000150_29.0124.C35.o2.gp	Method	AAT/GAP
Start	666	End	915
GI	101153_1.R1084	Score	373
Exons	666..915		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	27447	Seq. ID	OJ000150_29.0124.C37
Gene No.	56754	Strand	-
Start	315	End	438
Name	OJ000150_29.0124.C37.o1.gs	Method	GENSCAN
Start	315	End	438
GI	none	Score	.76
Exons	315..438		

Seq. No.	27448	Seq. ID	OJ000150_29.0124.C38
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Gene No.	56755	Strand	+
Start	200	End	703
Name	OJ000150_29.0124.C38.ol.gs	Method	GENSCAN
Start	200	End	703
GI	none	Score	.93
Exons	200..375, 685..703		

Seq. No.	27449	Seq. ID	OJ000150_29.0124.C42
Gene No.	56756	Strand	+
Start	1	End	609
Name	OJ000150_29.0124.C42.ol.np	Method	AAT/NAP
Start	1	End	609
GI	6721512	Score	77
Exons	1..214, 243..339, 547..609		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	27449	Seq. ID	OJ000150_29.0124.C42
Gene No.	56756	Strand	+
Start	1	End	609
Name	OJ000150_29.0124.C42.ol.gs	Method	GENSCAN
Start	111	End	440
GI	none	Score	.45
Exons	111..214, 355..440		

Seq. No.	27450	Seq. ID	OJ000150_29.0124.C43
Gene No.	56757	Strand	-
Start	379	End	658
Name	OJ000150_29.0124.C43.ol.np	Method	AAT/NAP
Start	379	End	658
GI	3510249	Score	314
Exons	379..658		
GI Descrip.	(AC005310) unknown protein [Arabidopsis thaliana]		

Seq. No.	27450	Seq. ID	OJ000150_29.0124.C43
Gene No.	56757	Strand	-
Start	379	End	658
Name	OJ000150_29.0124.C43.ol.tm	Method	TBLASTX:Maize
Start	382	End	622
GI	none	Score	141
Exons	382..522, 398..523, 523..621, 527..622		

Seq. No.	27450	Seq. ID	OJ000150_29.0124.C43
Gene No.	56757	Strand	-
Start	379	End	658
Name	OJ000150_29.0124.C43.ol.tc	Method	TBLASTX:Cress
Start	391	End	657
GI	none	Score	106
Exons	391..516, 395..514, 526..657, 527..655		

Seq. No.	27450	Seq. ID	OJ000150_29.0124.C43
Gene No.	56757	Strand	-
Start	379	End	658
Name	OJ000150_29.0124.C43.ol.ts	Method	TBLASTX:Soybean
Start	394	End	657
GI	none	Score	108
Exons	394..513, 532..657, 533..655		



Seq. No.	27451	Seq. ID	OJ000150_29.0124.C45
Gene No.	56758	Strand	+
Start	403	End	521
Name	OJ000150_29.0124.C45.ol.gs	Method	GENSCAN
Start	403	End	521
GI	none	Score	.78
Exons	403..521		

Seq. No.	27452	Seq. ID	OJ000150_29.0124.C46
Gene No.	56759	Strand	+
Start	278	End	357
Name	OJ000150_29.0124.C46.ol.gs	Method	GENSCAN
Start	278	End	357
GI	none	Score	.78
Exons	278..357		

Seq. No.	27453	Seq. ID	OJ000150_29.0124.C47
Gene No.	56760	Strand	-
Start	1	End	739
Name	OJ000150_29.0124.C47.ol.np	Method	AAT/NAP
Start	1	End	739
GI	6498441	Score	350
Exons	1..739		

GI Descrip. (AP000815) EST C72786(E2258). corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	27453	Seq. ID	OJ000150_29.0124.C47
Gene No.	56760	Strand	-
Start	1	End	739
Name	OJ000150_29.0124.C47.ol.gs	Method	GENSCAN
Start	69	End	547
GI	none	Score	.92
Exons	69..547		

Seq. No.	27453	Seq. ID	OJ000150_29.0124.C47
Gene No.	56760	Strand	-
Start	1	End	739
Name	OJ000150_29.0124.C47.ol.tw	Method	TBLASTX:Wheat
Start	432	End	707
GI	none	Score	88
Exons	432..707, 433..666		

Seq. No.	27454	Seq. ID	OJ000150_29.0124.C48
Gene No.	56761	Strand	-
Start	57	End	109
Name	OJ000150_29.0124.C48.ol.gp	Method	AAT/GAP
Start	57	End	109
GI	28928_1.R1084	Score	54
Exons	57..109		
GI Descrip.	'3860323/emb CAA10129  6.0e-10 (AJ012688) hypothetical protein [Cicer arietinum]'		

Seq. No.	27455	Seq. ID	OJ000150_29.0124.C49
Gene No.	56762	Strand	-
Start	107	End	812
Name	OJ000150_29.0124.C49.ol.gs	Method	GENSCAN

Start 107  
GI none  
Exons 107..316, 354..812

End 812  
Score .46

Seq. No. 27456  
Gene No. 56763  
Start 54  
Name OJ000150\_29.0124.C52.o1.gs  
Start 54  
GI none  
Exons 54..197

Seq. ID OJ000150\_29.0124.C52  
Strand -  
End 197  
Method GENSCAN  
End 197  
Score .64

Seq. No. 27457  
Gene No. 56764  
Start 1  
Name OJ000150\_29.0124.C53.o1.np  
Start 1  
GI 6721561  
Exons 1..201, 500..638

Seq. ID OJ000150\_29.0124.C53  
Strand +  
End 638  
Method AAT/NAP  
End 638  
Score 174

GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 27457  
Gene No. 56765  
Start 34  
Name OJ000150\_29.0124.C53.o1.gs  
Start 34  
GI none  
Exons 34..451

Seq. ID OJ000150\_29.0124.C53  
Strand -  
End 451  
Method GENSCAN  
End 451  
Score .53

Seq. No. 27458  
Gene No. 56766  
Start 1  
Name OJ000150\_29.0124.C54.o1.np  
Start 1  
GI 5902448  
Exons 1..472  
GI Descrip. (AB030283) orf3 [Oryza sativa]

Seq. ID OJ000150\_29.0124.C54  
Strand -  
End 472  
Method AAT/NAP  
End 472  
Score 399

Seq. No. 27459  
Gene No. 56767  
Start 179  
Name OJ000150\_29.0124.C55.o1.gs  
Start 179  
GI none  
Exons 179..256, 321..527, 600..675, 764..873

Seq. ID OJ000150\_29.0124.C55  
Strand +  
End 873  
Method GENSCAN  
End 873  
Score .7

Seq. No. 27460  
Gene No. 56768  
Start 1  
Name OJ000150\_29.0124.C56.o1.np  
Start 1  
GI 5922636  
Exons 1..181, 476..707

Seq. ID OJ000150\_29.0124.C56  
Strand +  
End 707  
Method AAT/NAP  
End 707  
Score 282

GI Descrip. (AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016869|dbj|BAA85212.1| (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	27460	Seq. ID	OJ000150_29.0124.C56
Gene No.	56768	Strand	+
Start	1	End	707
Name	OJ000150_29.0124.C56.o1.gs	Method	GENSCAN
Start	191	End	610
GI	none	Score	1
Exons	191..610		

Seq. No.	27461	Seq. ID	OJ000150_29.0124.C57
Gene No.	56769	Strand	+
Start	48	End	492
Name	OJ000150_29.0124.C57.o1.gs	Method	GENSCAN
Start	48	End	492
GI	none	Score	.41
Exons	48..213, 422..492		

Seq. No.	27462	Seq. ID	OJ000150_29.0124.C59
Gene No.	56770	Strand	-
Start	234	End	567
Name	OJ000150_29.0124.C59.o1.gs	Method	GENSCAN
Start	234	End	567
GI	none	Score	.48
Exons	234..284, 318..371, 463..567		

Seq. No.	27463	Seq. ID	OJ000150_29.0124.C62
Gene No.	56771	Strand	-
Start	1	End	594
Name	OJ000150_29.0124.C62.o1.np	Method	AAT/NAP
Start	1	End	594
GI	3510251	Score	341
Exons	1..594		
GI Descrip.	(AC005310) unknown protein [Arabidopsis thaliana]		

Seq. No.	27463	Seq. ID	OJ000150_29.0124.C62
Gene No.	56771	Strand	-
Start	1	End	594
Name	OJ000150_29.0124.C62.o1.gs	Method	GENSCAN
Start	262	End	534
GI	none	Score	.96
Exons	262..534		

Seq. No.	27463	Seq. ID	OJ000150_29.0124.C62
Gene No.	56771	Strand	-
Start	1	End	594
Name	OJ000150_29.0124.C62.o1.ts	Method	TBLASTX:Soybean
Start	265	End	585
GI	none	Score	127
Exons	265..585, 413..583		

Seq. No.	27464	Seq. ID	OJ000150_29.0124.C63
Gene No.	56772	Strand	-

Start	518	End	597
Name	OJ000150_29.0124.C63.ol.gs	Method	GENSCAN
Start	518	End	597
GI	none	Score	.84
Exons	518..597		
Seq. No.	27465	Seq. ID	OJ000150_29.0124.C64
Gene No.	56773	Strand	+
Start	451	End	705
Name	OJ000150_29.0124.C64.ol.gs	Method	GENSCAN
Start	451	End	705
GI	none	Score	.86
Exons	451..658, 681..705		
Seq. No.	27466	Seq. ID	OJ000150_29.0124.C66
Gene No.	56774	Strand	+
Start	305	End	692
Name	OJ000150_29.0124.C66.ol.gp	Method	AAT/GAP
Start	305	End	692
GI	uC-osflcyp033a04b1	Score	571
Exons	305..692		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	27466	Seq. ID	OJ000150_29.0124.C66
Gene No.	56774	Strand	+
Start	305	End	692
Name	OJ000150_29.0124.C66.ol.gs	Method	GENSCAN
Start	410	End	475
GI	none	Score	.47
Exons	410..475		
Seq. No.	27466	Seq. ID	OJ000150_29.0124.C66
Gene No.	56775	Strand	-
Start	233	End	693
Name	OJ000150_29.0124.C66.ol.np	Method	AAT/NAP
Start	233	End	693
GI	4680186	Score	196
Exons	233..438, 666..693		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	27467	Seq. ID	OJ000150_29.0124.C67
Gene No.	56776	Strand	+
Start	125	End	403
Name	OJ000150_29.0124.C67.ol.gs	Method	GENSCAN
Start	125	End	403
GI	none	Score	.72
Exons	125..403		
Seq. No.	27468	Seq. ID	OJ000150_29.0124.C68
Gene No.	56777	Strand	+
Start	1	End	722
Name	OJ000150_29.0124.C68.ol.np	Method	AAT/NAP
Start	1	End	722
GI	5902444	Score	299
Exons	1..722		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	27468	Seq. ID	OJ000150_29.0124.C68
Gene No.	56777	Strand	+
Start	1	End	722
Name	OJ000150_29.0124.C68.o1.gs	Method	GENSCAN
Start	122	End	675
GI	none	Score	.8
Exons	122..326, 467..675		

Seq. No.	27468	Seq. ID	OJ000150_29.0124.C68
Gene No.	56777	Strand	+
Start	1	End	722
Name	OJ000150_29.0124.C68.o1.tw	Method	TBLASTX:Wheat
Start	322	End	630
GI	none	Score	169
Exons	322..630		

Seq. No.	27469	Seq. ID	OJ000150_29.0124.C72
Gene No.	56778	Strand	+
Start	1	End	743
Name	OJ000150_29.0124.C72.o1.np	Method	AAT/NAP
Start	1	End	743
GI	4378066	Score	554
Exons	1..743		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	27469	Seq. ID	OJ000150_29.0124.C72
Gene No.	56778	Strand	+
Start	1	End	743
Name	OJ000150_29.0124.C72.o1.tw	Method	TBLASTX:Wheat
Start	107	End	514
GI	none	Score	211
Exons	107..328, 108..332, 147..335, 360..443, 452..514		

Seq. No.	27469	Seq. ID	OJ000150_29.0124.C72
Gene No.	56778	Strand	+
Start	1	End	743
Name	OJ000150_29.0124.C72.o1.gs	Method	GENSCAN
Start	129	End	707
GI	none	Score	.66
Exons	129..305, 410..707		

Seq. No.	27470	Seq. ID	OJ000150_29.0124.C74
Gene No.	56779	Strand	+
Start	277	End	395
Name	OJ000150_29.0124.C74.o1.gs	Method	GENSCAN
Start	277	End	395
GI	none	Score	.82
Exons	277..395		

Seq. No.	27471	Seq. ID	OJ000150_29.0124.C75
Gene No.	56780	Strand	+
Start	302	End	1517
Name	OJ000150_29.0124.C75.o1.gs	Method	GENSCAN
Start	302	End	1517

GI	none	Score	.63
Exons	302..439, 722..811, 1061..1155, 1280..1517		
Seq. No.	27472	Seq. ID	OJ000150_29.0124.C76
Gene No.	56781	Strand	-
Start	1	End	3268
Name	OJ000150_29.0124.C76.o1.np	Method	AAT/NAP
Start	1	End	3268
GI	4206306	Score	1084
Exons	1..1388, 3245..3268		
GI Descrip.	(AF049110) prpol [Zea mays]		
Seq. No.	27472	Seq. ID	OJ000150_29.0124.C76
Gene No.	56781	Strand	-
Start	1	End	3268
Name	OJ000150_29.0124.C76.o2.tw	Method	TBLASTX:Wheat
Start	66	End	455
GI	none	Score	46
Exons	66..455, 70..189, 244..411		
Seq. No.	27472	Seq. ID	OJ000150_29.0124.C76
Gene No.	56781	Strand	-
Start	1	End	3268
Name	OJ000150_29.0124.C76.o1.tm	Method	TBLASTX:Maize
Start	105	End	563
GI	none	Score	51
Exons	105..563, 144..257, 244..438		
Seq. No.	27472	Seq. ID	OJ000150_29.0124.C76
Gene No.	56781	Strand	-
Start	1	End	3268
Name	OJ000150_29.0124.C76.o1.gs	Method	GENSCAN
Start	127	End	2428
GI	none	Score	.6
Exons	127..1412, 1421..1630, 1723..1932, 1970..2428		
Seq. No.	27472	Seq. ID	OJ000150_29.0124.C76
Gene No.	56781	Strand	-
Start	1	End	3268
Name	OJ000150_29.0124.C76.o1.tw	Method	TBLASTX:Wheat
Start	765	End	1197
GI	none	Score	174
Exons	765..1196, 766..1197		
Seq. No.	27472	Seq. ID	OJ000150_29.0124.C76
Gene No.	56781	Strand	-
Start	1	End	3268
Name	OJ000150_29.0124.C76.o3.tw	Method	TBLASTX:Wheat
Start	1197	End	1389
GI	none	Score	80
Exons	1197..1382, 1201..1389		
Seq. No.	27473	Seq. ID	OJ000150_29.0124.C77
Gene No.	56782	Strand	-
Start	1	End	1708
Name	OJ000150_29.0124.C77.o1.np	Method	AAT/NAP
Start	1	End	1708

GI 5852179 Score 430  
 Exons 1..108, 189..417, 491..699, 1688..1708  
 GI Descrip. (AL117265) zhb0009.1 [Oryza sativa]

Seq. No. 27473 Seq. ID OJ000150\_29.0124.C77  
 Gene No. 56782 Strand -  
 Start 1 End 1708  
 Name OJ000150\_29.0124.C77.o1.gs Method GENSCAN  
 Start 209 End 594  
 GI none Score .7  
 Exons 209..366, 395..594

Seq. No. 27474 Seq. ID OJ000150\_29.0124.C78  
 Gene No. 56783 Strand +  
 Start 39 End 158  
 Name OJ000150\_29.0124.C78.o1.gp Method AAT/GAP  
 Start 39 End 158  
 GI 61605\_3.R1084 Score 180  
 Exons 39..158  
 GI Descrip. '1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'

Seq. No. 27474 Seq. ID OJ000150\_29.0124.C78  
 Gene No. 56784 Strand +  
 Start 217 End 3374  
 Name OJ000150\_29.0124.C78.o1.np Method AAT/NAP  
 Start 217 End 3374  
 GI 6473880 Score 77  
 Exons 217..344, 1201..1522, 3120..3166, 3320..3374  
 GI Descrip. (AB027890) Hypothetical protein [Schizosaccharomyces pombe]

Seq. No. 27474 Seq. ID OJ000150\_29.0124.C78  
 Gene No. 56785 Strand -  
 Start 177 End 3220  
 Name OJ000150\_29.0124.C78.o1.gs Method GENSCAN  
 Start 177 End 3220  
 GI none Score .66  
 Exons 177..586, 675..1560, 1981..2048, 2086..2223, 2831..2891, 3125..3220

Seq. No. 27475 Seq. ID OJ000150\_29.0124.C79  
 Gene No. 56786 Strand +  
 Start 677 End 2927  
 Name OJ000150\_29.0124.C79.o1.gs Method GENSCAN  
 Start 677 End 2927  
 GI none Score .79  
 Exons 677..750, 773..1066, 1094..2028, 2425..2927

Seq. No. 27475 Seq. ID OJ000150\_29.0124.C79  
 Gene No. 56786 Strand +  
 Start 677 End 2927  
 Name OJ000150\_29.0124.C79.o1.np Method AAT/NAP  
 Start 1443 End 2735  
 GI 6721562 Score 451  
 Exons 1443..1826, 1858..2735  
 GI Descrip. (AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]

gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]

Seq. No.	27475	Seq. ID	OJ000150_29.0124.C79
Gene No.	56787	Strand	+
Start	3645	End	10751
Name	OJ000150_29.0124.C79.o2.np	Method	AAT/NAP
Start	3645	End	10751
GI	5852180	Score	627
Exons	3645..3692, 4690..4807, 4859..5269, 5975..6045, 10718..10751		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	27475	Seq. ID	OJ000150_29.0124.C79
Gene No.	56788	Strand	-
Start	3541	End	3925
Name	OJ000150_29.0124.C79.o1.gp	Method	AAT/GAP
Start	3541	End	3925
GI	uC-osflcyp033a04b1	Score	600
Exons	3541..3925		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	27475	Seq. ID	OJ000150_29.0124.C79
Gene No.	56789	Strand	-
Start	4344	End	6755
Name	OJ000150_29.0124.C79.o2.gs	Method	GENSCAN
Start	4344	End	6755
GI	none	Score	.41
Exons	4344..4451, 4712..4834, 5014..5241, 6030..6168, 6640..6755		

Seq. No.	27475	Seq. ID	OJ000150_29.0124.C79
Gene No.	56789	Strand	-
Start	4344	End	6755
Name	OJ000150_29.0124.C79.o3.gp	Method	AAT/GAP
Start	4353	End	5278
GI	2428924	Score	600
Exons	4353..4451, 5014..5278		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-50 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	27475	Seq. ID	OJ000150_29.0124.C79
Gene No.	56790	Strand	-
Start	8059	End	10136
Name	OJ000150_29.0124.C79.o1.tw	Method	TBLASTX:Wheat
Start	2142	End	2540
GI	none	Score	59
Exons	2142..2192, 2193..2306, 2216..2254, 2265..2540, 2312..2539		

Seq. No.	27475	Seq. ID	OJ000150_29.0124.C79
Gene No.	56790	Strand	-
Start	8059	End	10136
Name	OJ000150_29.0124.C79.o3.gs	Method	GENSCAN
Start	8059	End	10136
GI	none	Score	.42
Exons	8059..8214, 8323..9711, 10005..10136		



Seq. No.	27475	Seq. ID	OJ000150_29.0124.C79
Gene No.	56790	Strand	-
Start	8059	End	10136
Name	OJ000150_29.0124.C79.o3.np	Method	AAT/NAP
Start	8402	End	10025
GI	729704	Score	83
Exons	8402..8471, 8727..8809, 9052..9108, 9331..9426, 9993..10025		
GI Descrip.	DNA-BINDING PROTEIN HEXBP (HEXAMER-BINDING PROTEIN) gi 1078700 pir  A47156 hexamer-binding protein HEXBP - Leishmania major gi 159342 (M94390) HEXBP DNA binding protein [Leishmania major]		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56791	Strand	+
Start	1452	End	4569
Name	OJ000150_29.0124.C80.o1.np	Method	AAT/NAP
Start	1452	End	4569
GI	5902445	Score	2958
Exons	1452..3243, 3283..4569		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56791	Strand	+
Start	1452	End	4569
Name	OJ000150_29.0124.C80.o2.gs	Method	GENSCAN
Start	3829	End	4269
GI	none	Score	.49
Exons	3829..4269		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56792	Strand	+
Start	10531	End	19779
Name	OJ000150_29.0124.C80.o5.np	Method	AAT/NAP
Start	10531	End	19779
GI	5922636	Score	394
Exons	10531..10844, 11139..11366, 16481..16599, 19716..19779		
GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016869 dbj BAA85212.1  (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56792	Strand	+
Start	10531	End	19779
Name	OJ000150_29.0124.C80.o5.gs	Method	GENSCAN
Start	10854	End	11273
GI	none	Score	.79
Exons	10854..11273		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56792	Strand	+
Start	10531	End	19779
Name	OJ000150_29.0124.C80.o1.gp	Method	AAT/GAP
Start	16922	End	17658
GI	101153_1.R1084	Score	374
Exons	16922..16961, 17409..17658		

GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56792	Strand	+
Start	10531	End	19779
Name	OJ000150_29.0124.C80.o2.gp	Method	AAT/GAP
Start	17674	End	18087
GI	2428185	Score	681
Exons	17674..18087		

GI Descrip. 5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56793	Strand	-
Start	3831	End	8028
Name	OJ000150_29.0124.C80.o2.np	Method	AAT/NAP
Start	3831	End	7128
GI	6721561	Score	449
Exons	3831..3861, 5390..5710, 5795..5853, 5923..6114, 7057..7128		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56793	Strand	-
Start	3831	End	8028
Name	OJ000150_29.0124.C80.o3.gs	Method	GENSCAN
Start	5338	End	7870
GI	none	Score	.77
Exons	5338..5710, 5795..5853, 5923..6117, 6183..6307, 6474..6605, 7007..7112, 7832..7870		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56793	Strand	-
Start	3831	End	8028
Name	OJ000150_29.0124.C80.o3.np	Method	AAT/NAP
Start	5977	End	7106
GI	6721558	Score	256
Exons	5977..6307, 7007..7106		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815083 dbj BAA90369.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56793	Strand	-
Start	3831	End	8028
Name	OJ000150_29.0124.C80.o4.np	Method	AAT/NAP
Start	6315	End	8028
GI	6721512	Score	73
Exons	6315..6378, 7772..7907, 7936..8028		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56794	Strand	-

Start 8944  
 Name OJ000150\_29.0124.C80.o4.gs  
 Start 8944  
 GI none  
 Exons 8944..9172, 9319..9557

End 9557  
 Method GENSCAN  
 End 9557  
 Score .66

Seq. No. 27476  
 Gene No. 56795  
 Start 14680  
 Name OJ000150\_29.0124.C80.o7.gs  
 Start 14680  
 GI none  
 Exons 14680..14850, 16474..16675, 16734..16903

Seq. ID OJ000150\_29.0124.C80  
 Strand -  
 End 16903  
 Method GENSCAN  
 End 16903  
 Score .79

Seq. No. 27476  
 Gene No. 56796  
 Start 18610  
 Name OJ000150\_29.0124.C80.o5.tw  
 Start 759  
 GI none  
 Exons 759..941, 767..940, 978..1214, 980..1165, 990..1193

Seq. ID OJ000150\_29.0124.C80  
 Strand -  
 End 18864  
 Method TBLASTX:Wheat  
 End 1214  
 Score 144

Seq. No. 27476  
 Gene No. 56796  
 Start 18610  
 Name OJ000150\_29.0124.C80.o1.tw  
 Start 1397  
 GI none  
 Exons 1397..1714, 1407..1715, 1425..1715, 1694..1837, 1717..1851, 1718..1840

Seq. ID OJ000150\_29.0124.C80  
 Strand -  
 End 18864  
 Method TBLASTX:Wheat  
 End 1851  
 Score 339

Seq. No. 27476  
 Gene No. 56796  
 Start 18610  
 Name OJ000150\_29.0124.C80.o2.tm  
 Start 1527  
 GI none  
 Exons 1527..1721, 1568..1714, 1573..1722, 1581..1721, 1640..1732, 1721..1882

Seq. ID OJ000150\_29.0124.C80  
 Strand -  
 End 18864  
 Method TBLASTX:Maize  
 End 1882  
 Score 229

Seq. No. 27476  
 Gene No. 56796  
 Start 18610  
 Name OJ000150\_29.0124.C80.o3.tm  
 Start 1910  
 GI none  
 Exons 1910..2293, 2071..2292

Seq. ID OJ000150\_29.0124.C80  
 Strand -  
 End 18864  
 Method TBLASTX:Maize  
 End 2293  
 Score 299

Seq. No. 27476  
 Gene No. 56796  
 Start 18610  
 Name OJ000150\_29.0124.C80.o2.tw  
 Start 1967  
 GI none  
 Exons 1967..2389, 1972..2391

Seq. ID OJ000150\_29.0124.C80  
 Strand -  
 End 18864  
 Method TBLASTX:Wheat  
 End 2391  
 Score 441

Seq. No. 27476  
 Seq. ID OJ000150\_29.0124.C80

Gene No.	56796	Strand	-
Start	18610	End	18864
Name	OJ000150_29.0124.C80.o1.ts	Method	TBLASTX:Soybean
Start	2021	End	2446
GI	none	Score	301
Exons	2021..2446, 2071..2205		
Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56796	Strand	-
Start	18610	End	18864
Name	OJ000150_29.0124.C80.o6.tw	Method	TBLASTX:Wheat
Start	2536	End	2943
GI	none	Score	211
Exons	2536..2757, 2537..2761, 2576..2764, 2789..2872, 2881..2943		
Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56796	Strand	-
Start	18610	End	18864
Name	OJ000150_29.0124.C80.o7.tw	Method	TBLASTX:Wheat
Start	2982	End	3302
GI	none	Score	178
Exons	2982..3302, 2983..3240		
Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56796	Strand	-
Start	18610	End	18864
Name	OJ000150_29.0124.C80.o1.tm	Method	TBLASTX:Maize
Start	3445	End	3750
GI	none	Score	355
Exons	3445..3750, 3531..3749		
Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56796	Strand	-
Start	18610	End	18864
Name	OJ000150_29.0124.C80.o4.tw	Method	TBLASTX:Wheat
Start	3445	End	10411
GI	none	Score	355
Exons	3445..3831, 3453..3749, 3783..3827, 10304..10411		
Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56796	Strand	-
Start	18610	End	18864
Name	OJ000150_29.0124.C80.o3.tw	Method	TBLASTX:Wheat
Start	3952	End	4560
GI	none	Score	313
Exons	3952..4404, 3966..4055, 4101..4208, 4429..4560		
Seq. No.	27476	Seq. ID	OJ000150_29.0124.C80
Gene No.	56796	Strand	-
Start	18610	End	18864
Name	OJ000150_29.0124.C80.o3.gp	Method	AAT/GAP
Start	18610	End	18864
GI	61605_3.R1084	Score	424
Exons	18610..18864		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56797	Strand	+
Start	4453	End	27345
Name	OJ000150_29.0124.C81.o2.gs	Method	GENSCAN
Start	4453	End	27345
GI	none	Score	.7
Exons	4453..5262, 7066..7321, 7827..8717, 9103..9310, 9333..9357, 9452..9675, 16240..16319, 16960..17077, 18054..18181, 19180..19415, 24327..24418, 25523..25640, 26572..26769, 27133..27345		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56797	Strand	+
Start	4453	End	27345
Name	OJ000150_29.0124.C81.o1.np	Method	AAT/NAP
Start	4547	End	8662
GI	3510249	Score	1429
Exons	4547..5262, 7066..7314, 7823..8662		
GI Descrip.	(AC005310) unknown protein [Arabidopsis thaliana]		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56798	Strand	+
Start	33149	End	35517
Name	OJ000150_29.0124.C81.o4.gs	Method	GENSCAN
Start	33149	End	35517
GI	none	Score	.59
Exons	33149..33272, 34958..35074, 35327..35517		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56799	Strand	-
Start	1682	End	1795
Name	OJ000150_29.0124.C81.o1.gs	Method	GENSCAN
Start	1682	End	1795
GI	none	Score	.92
Exons	1682..1795		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56800	Strand	-
Start	35660	End	42397
Name	OJ000150_29.0124.C81.o5.gs	Method	GENSCAN
Start	35660	End	42397
GI	none	Score	.47
Exons	35660..35874, 37283..37331, 37423..37476, 38846..38964, 41883..41988, 42281..42397		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56801	Strand	-
Start	45677	End	46059
Name	OJ000150_29.0124.C81.o6.gs	Method	GENSCAN
Start	45677	End	46059
GI	none	Score	.91
Exons	45677..45745, 45871..46059		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o1.tc	Method	TBLASTX:Cress

Start	4695	End	5264
GI	none	Score	160
Exons	4695..4766, 4696..4890, 4884..5045, 4885..5178, 5091..5156, 5227..5259, 5232..5264		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o1.ts	Method	TBLASTX:Soybean
Start	4696	End	5148
GI	none	Score	167
Exons	4696..4890, 4884..5045, 4885..5148		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o4.ts	Method	TBLASTX:Soybean
Start	7054	End	7293
GI	none	Score	228
Exons	7054..7293, 7062..7289		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o3.ts	Method	TBLASTX:Soybean
Start	7928	End	8275
GI	none	Score	89
Exons	7928..8017, 8036..8131, 8135..8275		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o1.tm	Method	TBLASTX:Maize
Start	8095	End	8467
GI	none	Score	185
Exons	8095..8262, 8096..8260, 8264..8467, 8314..8466		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o1.tw	Method	TBLASTX:Wheat
Start	8138	End	8488
GI	none	Score	391
Exons	8138..8488, 8146..8271, 8314..8487		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o2.tc	Method	TBLASTX:Cress
Start	8326	End	8650
GI	none	Score	219
Exons	8326..8514, 8327..8515, 8525..8650, 8527..8646		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o2.ts	Method	TBLASTX:Soybean

Start	8332	End	8647
GI	none	Score	204
Exons	8332..8508, 8333..8509, 8528..8647		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o2.tm	Method	TBLASTX:Maize
Start	8468	End	8659
GI	none	Score	72
Exons	8468..8518, 8468..8509, 8518..8643, 8519..8659		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o2.np	Method	AAT/NAP
Start	47097	End	48778
GI	6539588	Score	173
Exons	47097..47122, 48463..48778		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	27477	Seq. ID	OJ000150_29.0124.C81
Gene No.	56802	Strand	-
Start	47097	End	49109
Name	OJ000150_29.0124.C81.o7.gs	Method	GENSCAN
Start	48478	End	49109
GI	none	Score	.5
Exons	48478..48635, 48664..48751, 48990..49109		

Seq. No.	27478	Seq. ID	OJ000150_29.0124.C82
Gene No.	56803	Strand	+
Start	230	End	325
Name	OJ000150_29.0124.C82.o1.gs	Method	GENSCAN
Start	230	End	325
GI	none	Score	.46
Exons	230..325		

Seq. No.	27479	Seq. ID	OJ000150_29.0124.C83
Gene No.	56804	Strand	-
Start	524	End	657
Name	OJ000150_29.0124.C83.o1.gs	Method	GENSCAN
Start	524	End	657
GI	none	Score	.59
Exons	524..657		

Seq. No.	27480	Seq. ID	OJ000150_29.0124.C85
Gene No.	56805	Strand	+
Start	171	End	563
Name	OJ000150_29.0124.C85.o1.gs	Method	GENSCAN
Start	171	End	563
GI	none	Score	.4
Exons	171..563		

Seq. No.	27481	Seq. ID	OJ000150_15.0124.C3
Gene No.	56806	Strand	+
Start	75	End	231
Name	OJ000150_15.0124.C3.o1.gs	Method	GENSCAN

Start 75  
GI none  
Exons 75..231

End 231  
Score .95

Seq. No. 27481                      Seq. ID OJ000150\_15.0124.C3  
Gene No. 56807                      Strand -  
Start 1                              End 2955  
Name OJ000150\_15.0124.C3.o1.np      Method AAT/NAP  
Start 1                              End 2955  
GI 5042463                          Score 167  
Exons 1..126, 172..309, 1019..1217, 2922..2955  
GI Descrip. (AC007789) unknown protein [Oryza sativa]

Seq. No. 27482                      Seq. ID OJ000150\_15.0124.C4  
Gene No. 56808                      Strand -  
Start 515                            End 814  
Name OJ000150\_15.0124.C4.o1.gs      Method GENSCAN  
Start 515                            End 814  
GI none                              Score .4  
Exons 515..814

Seq. No. 27482                      Seq. ID OJ000150\_15.0124.C4  
Gene No. 56809                      Strand -  
Start 3109                           End 3599  
Name OJ000150\_15.0124.C4.o1.np      Method AAT/NAP  
Start 1652                           End 3326  
GI 6539588                          Score 226  
Exons 1652..1707, 3022..3326  
GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No. 27482                      Seq. ID OJ000150\_15.0124.C4  
Gene No. 56809                      Strand -  
Start 3109                           End 3599  
Name OJ000150\_15.0124.C4.o2.gs      Method GENSCAN  
Start 3109                           End 3599  
GI none                              Score .76  
Exons 3109..3272, 3542..3599

Seq. No. 27483                      Seq. ID OJ000150\_15.0124.C5  
Gene No. 56810                      Strand +  
Start 3755                           End 5968  
Name OJ000150\_15.0124.C5.o1.np      Method AAT/NAP  
Start 3755                           End 5697  
GI 4731912                          Score 288  
Exons 3755..3781, 5139..5697  
GI Descrip. (AF111941) development protein DG1148 [Dictyostelium discoideum]

Seq. No. 27483                      Seq. ID OJ000150\_15.0124.C5  
Gene No. 56810                      Strand +  
Start 3755                           End 5968  
Name OJ000150\_15.0124.C5.o1.gs      Method GENSCAN  
Start 4788                           End 5968  
GI none                              Score .83  
Exons 4788..5726, 5864..5968

Seq. No. 27483                      Seq. ID OJ000150\_15.0124.C5  
Gene No. 56810                      Strand +



Start	3755	End	5968
Name	OJ000150_15.0124.C5.o1.tm	Method	TBLASTX:Maize
Start	5162	End	5514
GI	none	Score	100
Exons	5162..5227, 5169..5228, 5238..5396, 5240..5389, 5398..5421, 5419..5514, 5481..5504		

Seq. No.	27484	Seq. ID	OJ000150_15.0124.C6
Gene No.	56811	Strand	+
Start	1733	End	5708
Name	OJ000150_15.0124.C6.o1.gp	Method	AAT/GAP
Start	1733	End	2783
GI	62810_1.R1084	Score	830
Exons	1733..2051, 2672..2783		
GI Descrip.	'1076748/pir  S52003 5.0e-12 major intrinsic protein - rice >gi_440869_dbj_BAA04257_ (D17443) major intrinsic protein [Oryza sativa]'		

Seq. No.	27484	Seq. ID	OJ000150_15.0124.C6
Gene No.	56811	Strand	+
Start	1733	End	5708
Name	OJ000150_15.0124.C6.o1.gs	Method	GENSCAN
Start	1887	End	2200
GI	none	Score	.83
Exons	1887..2051, 2120..2200		

Seq. No.	27484	Seq. ID	OJ000150_15.0124.C6
Gene No.	56811	Strand	+
Start	1733	End	5708
Name	OJ000150_15.0124.C6.o1.np	Method	AAT/NAP
Start	1905	End	5708
GI	1076748	Score	587
Exons	1905..2051, 2672..3094, 4803..4864, 5616..5708		
GI Descrip.	major intrinsic protein - rice gi 440869 dbj BAA04257  (D17443) major intrinsic protein [Oryza sativa]		

Seq. No.	27484	Seq. ID	OJ000150_15.0124.C6
Gene No.	56811	Strand	+
Start	1733	End	5708
Name	OJ000150_15.0124.C6.o1.tc	Method	TBLASTX:Cress
Start	2669	End	4874
GI	none	Score	295
Exons	2669..2902, 2674..2901, 2984..3097, 2989..3093, 4803..4874		

Seq. No.	27484	Seq. ID	OJ000150_15.0124.C6
Gene No.	56811	Strand	+
Start	1733	End	5708
Name	OJ000150_15.0124.C6.o1.tw	Method	TBLASTX:Wheat
Start	2669	End	2871
GI	none	Score	178
Exons	2669..2869, 2767..2871, 2788..2871		

Seq. No.	27484	Seq. ID	OJ000150_15.0124.C6
Gene No.	56811	Strand	+
Start	1733	End	5708
Name	OJ000150_15.0124.C6.o1.tm	Method	TBLASTX:Maize
Start	2669	End	4874

GI	none	Score	320
Exons	2669..2902, 2674..2901, 2977..3093, 2978..3097, 4802..4864, 4803..4874		

Seq. No.	27484	Seq. ID	OJ000150_15.0124.C6
Gene No.	56811	Strand	+
Start	1733	End	5708
Name	OJ000150_15.0124.C6.ol.ts	Method	TBLASTX:Soybean
Start	2669	End	3102
GI	none	Score	270
Exons	2669..2902, 2677..2901, 2977..3102, 2978..3097		

Seq. No.	27485	Seq. ID	OJ000150_15.0124.C7
Gene No.	56812	Strand	+
Start	1	End	936
Name	OJ000150_15.0124.C7.ol.np	Method	AAT/NAP
Start	1	End	936
GI	1076748	Score	229
Exons	1..23, 707..936		
GI Descrip.	major intrinsic protein - rice gi 440869 dbj BAA04257  (D17443) major intrinsic protein [Oryza sativa]		

Seq. No.	27485	Seq. ID	OJ000150_15.0124.C7
Gene No.	56812	Strand	+
Start	1	End	936
Name	OJ000150_15.0124.C7.ol.gs	Method	GENSCAN
Start	736	End	927
GI	none	Score	.8
Exons	736..927		

Seq. No.	27485	Seq. ID	OJ000150_15.0124.C7
Gene No.	56813	Strand	+
Start	2333	End	3198
Name	OJ000150_15.0124.C7.o2.gs	Method	GENSCAN
Start	2333	End	3198
GI	none	Score	1
Exons	2333..2433, 2520..3198		

Seq. No.	27485	Seq. ID	OJ000150_15.0124.C7
Gene No.	56814	Strand	-
Start	3888	End	4619
Name	OJ000150_15.0124.C7.ol.ts	Method	TBLASTX:Soybean
Start	702	End	909
GI	none	Score	251
Exons	702..908, 706..909		

Seq. No.	27485	Seq. ID	OJ000150_15.0124.C7
Gene No.	56814	Strand	-
Start	3888	End	4619
Name	OJ000150_15.0124.C7.ol.tc	Method	TBLASTX:Cress
Start	706	End	920
GI	none	Score	250
Exons	706..918, 708..920		

Seq. No.	27485	Seq. ID	OJ000150_15.0124.C7
Gene No.	56814	Strand	-
Start	3888	End	4619

Name	OJ000150_15.0124.C7.ol.tm	Method	TBLASTX:Maize
Start	706	End	925
GI	none	Score	289
Exons	706..921, 717..920, 727..921, 731..925, 837..923		

Seq. No.	27485	Seq. ID	OJ000150_15.0124.C7
Gene No.	56814	Strand	-
Start	3888	End	4619
Name	OJ000150_15.0124.C7.ol.tw	Method	TBLASTX:Wheat
Start	706	End	925
GI	none	Score	276
Exons	706..921, 717..920, 731..925, 837..923		

Seq. No.	27485	Seq. ID	OJ000150_15.0124.C7
Gene No.	56814	Strand	-
Start	3888	End	4619
Name	OJ000150_15.0124.C7.o2.np	Method	AAT/NAP
Start	3888	End	4619
GI	4512673	Score	297
Exons	3888..3944, 4302..4376, 4530..4619		
GI Descrip.	(AC006931) putative phosphoprotein phosphatase [Arabidopsis thaliana]		

Seq. No.	27486	Seq. ID	OJ000150_15.0124.C8
Gene No.	56815	Strand	-
Start	1	End	3673
Name	OJ000150_15.0124.C8.ol.gp	Method	AAT/GAP
Start	1	End	1652
GI	27075_1.R1084	Score	1372
Exons	1..151, 592..840, 999..1146, 1337..1454, 1544..1652		
GI Descrip.	'4512673/gb AAD21727.1  1.0e-130 (AC006931) putative phosphoprotein phosphatase [Arabidopsis thaliana]'		

Seq. No.	27486	Seq. ID	OJ000150_15.0124.C8
Gene No.	56815	Strand	-
Start	1	End	3673
Name	OJ000150_15.0124.C8.ol.np	Method	AAT/NAP
Start	1	End	3670
GI	4512673	Score	1439
Exons	1..151, 592..840, 999..1146, 1337..1454, 1544..1796, 2315..2468, 2657..2728, 2801..2970, 3595..3670		
GI Descrip.	(AC006931) putative phosphoprotein phosphatase [Arabidopsis thaliana]		

Seq. No.	27486	Seq. ID	OJ000150_15.0124.C8
Gene No.	56815	Strand	-
Start	1	End	3673
Name	OJ000150_15.0124.C8.ol.tm	Method	TBLASTX:Maize
Start	21	End	3673
GI	none	Score	164
Exons	21..146, 23..154, 27..152, 590..859, 590..838, 1003..1149, 1004..1132, 1006..1149, 1322..1453, 1331..1456, 1341..1457, 1342..1476, 1536..1583, 1536..1652, 1540..1662, 1541..1654, 2313..2468, 2317..2478, 2320..2469, 2645..2728, 2654..2728, 2655..2738, 2656..2736, 2656..2766, 2789..2971, 2801..2971, 2802..2972, 2851..2973, 3596..3673		

Seq. No.	27486	Seq. ID	OJ000150_15.0124.C8
Gene No.	56815	Strand	-
Start	1	End	3673
Name	OJ000150_15.0124.C8.o1.gs	Method	GENSCAN
Start	26	End	3667
GI	none	Score	.94
Exons	26..151, 592..840, 999..1146, 1337..1454, 1544..1652, 2318..2468, 2657..2728, 2801..2970, 3595..3667		

Seq. No.	27486	Seq. ID	OJ000150_15.0124.C8
Gene No.	56815	Strand	-
Start	1	End	3673
Name	OJ000150_15.0124.C8.o1.ts	Method	TBLASTX:Soybean
Start	800	End	2971
GI	none	Score	88
Exons	800..853, 1000..1080, 1004..1081, 1070..1129, 1084..1149, 1307..1456, 1331..1456, 1339..1473, 1529..1654, 1540..1653, 2313..2468, 2320..2469, 2645..2728, 2655..2693, 2801..2971, 2802..2960		

Seq. No.	27486	Seq. ID	OJ000150_15.0124.C8
Gene No.	56815	Strand	-
Start	1	End	3673
Name	OJ000150_15.0124.C8.o1.tc	Method	TBLASTX:Cress
Start	2645	End	2976
GI	none	Score	58
Exons	2645..2728, 2649..2696, 2801..2968, 2805..2966, 2807..2968, 2851..2976		

Seq. No.	27487	Seq. ID	OJ000150_15.0124.C9
Gene No.	56816	Strand	-
Start	218	End	1133
Name	OJ000150_15.0124.C9.o1.gs	Method	GENSCAN
Start	218	End	1133
GI	none	Score	.71
Exons	218..337, 1017..1133		

Seq. No.	27487	Seq. ID	OJ000150_15.0124.C9
Gene No.	56817	Strand	-
Start	3075	End	3391
Name	OJ000150_15.0124.C9.o1.np	Method	AAT/NAP
Start	3075	End	3391
GI	161752	Score	44
Exons	3075..3162, 3211..3255, 3283..3391		
GI Descrip.	(L03710) cnjB [Tetrahymena thermophila] gi 737494 prf  1922371A cnjB gene [Tetrahymena thermophila]		

Seq. No.	27487	Seq. ID	OJ000150_15.0124.C9
Gene No.	56818	Strand	-
Start	10143	End	10439
Name	OJ000150_15.0124.C9.o1.tw	Method	TBLASTX:Wheat
Start	4476	End	4757
GI	none	Score	49
Exons	4476..4586, 4477..4584, 4587..4757, 4641..4748		

Seq. No.	27487	Seq. ID	OJ000150_15.0124.C9
Gene No.	56818	Strand	-

Start	10143	End	10439
Name	OJ000150_15.0124.C9.o2.np	Method	AAT/NAP
Start	10088	End	10346
GI	3618316	Score	72
Exons	10088..10149, 10190..10346		
GI Descrip.	(AB001886) zinc finger protein [Oryza sativa]		

Seq. No.	27487	Seq. ID	OJ000150_15.0124.C9
Gene No.	56818	Strand	-
Start	10143	End	10439
Name	OJ000150_15.0124.C9.o3.gs	Method	GENSCAN
Start	10143	End	10439
GI	none	Score	.93
Exons	10143..10439		

Seq. No.	27488	Seq. ID	OJ000150_15.0124.C10
Gene No.	56819	Strand	-
Start	420	End	766
Name	OJ000150_15.0124.C10.o1.gs	Method	GENSCAN
Start	420	End	766
GI	none	Score	.84
Exons	420..482, 668..766		

Seq. No.	27489	Seq. ID	OJ000150_15.0124.C13
Gene No.	56820	Strand	+
Start	237	End	3397
Name	OJ000150_15.0124.C13.o1.gs	Method	GENSCAN
Start	237	End	3397
GI	none	Score	.87
Exons	237..275, 2356..2736, 2741..2926, 2968..3161, 3241..3397		

Seq. No.	27489	Seq. ID	OJ000150_15.0124.C13
Gene No.	56821	Strand	-
Start	3588	End	4665
Name	OJ000150_15.0124.C13.o2.gs	Method	GENSCAN
Start	3588	End	4665
GI	none	Score	.75
Exons	3588..3744, 4631..4665		

Seq. No.	27490	Seq. ID	OJ000150_15.0124.C14
Gene No.	56822	Strand	+
Start	275	End	1557
Name	OJ000150_15.0124.C14.o1.gs	Method	GENSCAN
Start	275	End	1557
GI	none	Score	.56
Exons	275..328, 468..589, 1148..1220, 1321..1557		

Seq. No.	27490	Seq. ID	OJ000150_15.0124.C14
Gene No.	56823	Strand	+
Start	1939	End	2045
Name	OJ000150_15.0124.C14.o1.np	Method	AAT/NAP
Start	1939	End	2045
GI	5852172	Score	92
Exons	1939..2045		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	27490	Seq. ID	OJ000150_15.0124.C14
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Gene No.	56824	Strand	-
Start	3765	End	4487
Name	OJ000150_15.0124.C14.o2.gs	Method	GENSCAN
Start	3765	End	4487
GI	none	Score	.63
Exons	3765..3792, 4137..4228, 4350..4487		
Seq. No.	27491	Seq. ID	OJ000150_15.0124.C15
Gene No.	56825	Strand	+
Start	1	End	3449
Name	OJ000150_15.0124.C15.o1.np	Method	AAT/NAP
Start	1	End	3449
GI	4336434	Score	109
Exons	1..22, 1301..1412, 1474..1588, 1615..1680, 1844..1951, 3400..3449		
GI Descrip.	(AF092431) nodule-enhanced protein phosphatase type 2C [Lotus japonicus]		
Seq. No.	27491	Seq. ID	OJ000150_15.0124.C15
Gene No.	56825	Strand	+
Start	1	End	3449
Name	OJ000150_15.0124.C15.o1.gs	Method	GENSCAN
Start	207	End	1991
GI	none	Score	.63
Exons	207..469, 1360..1703, 1813..1991		
Seq. No.	27492	Seq. ID	OJ000150_15.0124.C17
Gene No.	56826	Strand	+
Start	577	End	6630
Name	OJ000150_15.0124.C17.o1.gs	Method	GENSCAN
Start	577	End	6630
GI	none	Score	.46
Exons	577..927, 2662..2867, 2966..3150, 4072..4382, 4704..4866, 4905..5019, 5273..5337, 6563..6630		
Seq. No.	27492	Seq. ID	OJ000150_15.0124.C17
Gene No.	56827	Strand	-
Start	6015	End	6508
Name	OJ000150_15.0124.C17.o1.gp	Method	AAT/GAP
Start	6015	End	6508
GI	576771	Score	816
Exons	6015..6225, 6252..6508		
GI Descrip.	576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		
Seq. No.	27492	Seq. ID	OJ000150_15.0124.C17
Gene No.	56828	Strand	-
Start	6785	End	9162
Name	OJ000150_15.0124.C17.o1.np	Method	AAT/NAP
Start	6785	End	9162
GI	6723392	Score	90
Exons	6785..6807, 8046..8283, 8413..8505, 9132..9162		
GI Descrip.	(AL132956) pectinesterase-like protein [Arabidopsis thaliana]		
Seq. No.	27492	Seq. ID	OJ000150_15.0124.C17
Gene No.	56828	Strand	-
Start	6785	End	9162

Name	OJ000150_15.0124.C17.o2.gs	Method	GENSCAN
Start	7142	End	8971
GI	none	Score	.66
Exons	7142..7158, 8409..8635, 8681..8971		

Seq. No.	27492	Seq. ID	OJ000150_15.0124.C17
Gene No.	56828	Strand	-
Start	6785	End	9162
Name	OJ000150_15.0124.C17.o1.tm	Method	TBLASTX:Maize
Start	8606	End	8917
GI	none	Score	54
Exons	8606..8671, 8625..8672, 8631..8681, 8675..8917, 8686..8907, 8777..8908		

Seq. No.	27493	Seq. ID	OJ000150_15.0124.C18
Gene No.	56829	Strand	-
Start	1084	End	2455
Name	OJ000150_15.0124.C18.o1.gs	Method	GENSCAN
Start	1084	End	2455
GI	none	Score	.57
Exons	1084..1305, 1626..1746, 2043..2148, 2349..2455		

Seq. No.	27494	Seq. ID	OJ000150_15.0124.C20
Gene No.	56830	Strand	+
Start	4465	End	4714
Name	OJ000150_15.0124.C20.o2.gs	Method	GENSCAN
Start	4465	End	4714
GI	none	Score	.71
Exons	4465..4572, 4599..4714		

Seq. No.	27494	Seq. ID	OJ000150_15.0124.C20
Gene No.	56831	Strand	-
Start	1340	End	2946
Name	OJ000150_15.0124.C20.o1.gs	Method	GENSCAN
Start	1340	End	2946
GI	none	Score	.63
Exons	1340..1406, 2067..2161, 2227..2581, 2831..2946		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56832	Strand	+
Start	7173	End	7855
Name	OJ000150_15.0124.C21.o1.gp	Method	AAT/GAP
Start	7173	End	7855
GI	none	Score	1116
Exons	7173..7609, 7683..7855		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56833	Strand	-
Start	1972	End	6798
Name	OJ000150_15.0124.C21.o1.np	Method	AAT/NAP
Start	1972	End	4113
GI	1176665	Score	111
Exons	1972..1993, 3931..4113		
GI Descrip.	PUTATIVE HISTONE DEACETYLASE C08B11.2 gi 3874170 emb CAA86662.1  (Z46676) similar to transcriptional regulatory protein (RPD3) [Caenorhabditis elegans]		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56833	Strand	-
Start	1972	End	6798
Name	OJ000150_15.0124.C21.o3.np	Method	AAT/NAP
Start	3170	End	6798
GI	3269287	Score	177
Exons	3170..3359, 4609..4877, 6755..6798		
GI Descrip.	(AL030978) GH3 like protein [Arabidopsis thaliana]		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56833	Strand	-
Start	1972	End	6798
Name	OJ000150_15.0124.C21.o2.np	Method	AAT/NAP
Start	4266	End	6420
GI	2541876	Score	105
Exons	4266..4900, 6379..6420		
GI Descrip.	(D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56834	Strand	-
Start	8145	End	13816
Name	OJ000150_15.0124.C21.o2.tm	Method	TBLASTX:Maize
Start	4321	End	4569
GI	none	Score	97
Exons	4321..4569, 4325..4549		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56834	Strand	-
Start	8145	End	13816
Name	OJ000150_15.0124.C21.o1.tm	Method	TBLASTX:Maize
Start	4611	End	4873
GI	none	Score	91
Exons	4611..4751, 4619..4750, 4775..4873, 4775..4873		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56834	Strand	-
Start	8145	End	13816
Name	OJ000150_15.0124.C21.o1.ts	Method	TBLASTX:Soybean
Start	4617	End	4879
GI	none	Score	83
Exons	4617..4751, 4619..4750, 4799..4879, 4799..4876		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56834	Strand	-
Start	8145	End	13816
Name	OJ000150_15.0124.C21.o1.tc	Method	TBLASTX:Cress
Start	4619	End	4876
GI	none	Score	82
Exons	4619..4780, 4623..4751, 4772..4876, 4791..4874		

Seq. No.	27495	Seq. ID	OJ000150_15.0124.C21
Gene No.	56834	Strand	-
Start	8145	End	13816
Name	OJ000150_15.0124.C21.o1.tw	Method	TBLASTX:Wheat
Start	4661	End	4876
GI	none	Score	91



Exons 4661..4759, 4665..4751, 4766..4876, 4766..4876

Seq. No. 27495 Seq. ID OJ000150\_15.0124.C21  
Gene No. 56834 Strand -  
Start 8145 End 13816  
Name OJ000150\_15.0124.C21.o4.np Method AAT/NAP  
Start 8145 End 13816  
GI 6069646 Score 165  
Exons 8145..8171, 9288..9538, 13655..13816  
GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315)  
[Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to  
Arabidopsis thaliana chromosome II BAC F9013 genomic sequence,  
putative non-LTR retroelement reverse transcriptase. (AC006248)  
[Oryza sativa]

Seq. No. 27496 Seq. ID OJ000150\_15.0124.C22  
Gene No. 56835 Strand +  
Start 398 End 2774  
Name OJ000150\_15.0124.C22.o1.gs Method GENSCAN  
Start 398 End 2774  
GI none Score .84  
Exons 398..410, 1319..1532, 2232..2308, 2713..2774

Seq. No. 27496 Seq. ID OJ000150\_15.0124.C22  
Gene No. 56835 Strand +  
Start 398 End 2774  
Name OJ000150\_15.0124.C22.o1.gp Method AAT/GAP  
Start 653 End 1954  
GI uC-osflcyp061g02b1 Score 564  
Exons 653..715, 1273..1532, 1915..1954  
GI Descrip. '2130078/pir||S59480 3.0e-44 MADS-box protein 3 - rice  
>gi\_886405 (L37528) MADS box protein [Oryza sativa]'

Seq. No. 27496 Seq. ID OJ000150\_15.0124.C22  
Gene No. 56835 Strand +  
Start 398 End 2774  
Name OJ000150\_15.0124.C22.o1.np Method AAT/NAP  
Start 1306 End 1532  
GI 4218162 Score 259  
Exons 1306..1532  
GI Descrip. (AJ009723) MADS-box protein, GAGA2 [Gerbera hybrida]

Seq. No. 27496 Seq. ID OJ000150\_15.0124.C22  
Gene No. 56836 Strand +  
Start 3152 End 5317  
Name OJ000150\_15.0124.C22.o1.tw Method TBLASTX:Wheat  
Start 1342 End 1533  
GI none Score 237  
Exons 1342..1533, 1356..1529

Seq. No. 27496 Seq. ID OJ000150\_15.0124.C22  
Gene No. 56836 Strand +  
Start 3152 End 5317  
Name OJ000150\_15.0124.C22.o1.tc Method TBLASTX:Cress  
Start 1356 End 1532  
GI none Score 282  
Exons 1356..1532, 1357..1530

Seq. No.	27496	Seq. ID	OJ000150_15.0124.C22
Gene No.	56836	Strand	+
Start	3152	End	5317
Name	OJ000150_15.0124.C22.o1.ts	Method	TBLASTX:Soybean
Start	1356	End	1532
GI	none	Score	62
Exons	1356..1454, 1356..1532, 1357..1530		
Seq. No.	27496	Seq. ID	OJ000150_15.0124.C22
Gene No.	56836	Strand	+
Start	3152	End	5317
Name	OJ000150_15.0124.C22.o1.tm	Method	TBLASTX:Maize
Start	1356	End	1532
GI	none	Score	123
Exons	1356..1448, 1356..1532, 1357..1530		
Seq. No.	27496	Seq. ID	OJ000150_15.0124.C22
Gene No.	56836	Strand	+
Start	3152	End	5317
Name	OJ000150_15.0124.C22.o2.gp	Method	AAT/GAP
Start	3152	End	5317
GI	LIB3477-003-P1-K1-E9	Score	93
Exons	3152..3212, 5280..5317		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56837	Strand	+
Start	1303	End	4464
Name	OJ000150_15.0124.C25.o1.gs	Method	GENSCAN
Start	1303	End	4464
GI	none	Score	.85
Exons	1303..1398, 1938..1999, 2094..2193, 2436..2477, 2662..2833, 3851..4051, 4376..4464		
Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56837	Strand	+
Start	1303	End	4464
Name	OJ000150_15.0124.C25.o1.gp	Method	AAT/GAP
Start	1314	End	1992
GI	uC-osflcyp061g02b1	Score	208
Exons	1314..1398, 1938..1992		
GI Descrip.	'2130078/pir  S59480 3.0e-44 MADS-box protein 3 - rice >gi_886405 (L37528) MADS box protein [Oryza sativa]'		
Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56837	Strand	+
Start	1303	End	4464
Name	OJ000150_15.0124.C25.o2.gp	Method	AAT/GAP
Start	2657	End	3449
GI	uC-osflcyp101h04a1	Score	760
Exons	2657..2833, 3227..3449		
GI Descrip.	'542191/pir  JQ2289 5.0e-11 floral homeotic protein ZAG1 - maize >gi_309574 (L18924) homologue of Arabidopsis gene AGAMOUS [Zea mays]'		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56838	Strand	+
Start	5687	End	12166
Name	OJ000150_15.0124.C25.o1.np	Method	AAT/NAP
Start	5654	End	12166
GI	4680179	Score	2569
Exons	5654..6348, 6377..6708, 8005..8073, 9281..9722, 11226..11321, 11504..12166		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56838	Strand	+
Start	5687	End	12166
Name	OJ000150_15.0124.C25.o2.gs	Method	GENSCAN
Start	5687	End	6733
GI	none	Score	.44
Exons	5687..5815, 6064..6340, 6432..6733		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56838	Strand	+
Start	5687	End	12166
Name	OJ000150_15.0124.C25.o3.gs	Method	GENSCAN
Start	8203	End	10016
GI	none	Score	.53
Exons	8203..8267, 8381..8552, 9026..9269, 9383..9679, 9886..10016		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o1.tc	Method	TBLASTX:Cress
Start	1315	End	2483
GI	none	Score	86
Exons	1315..1431, 1929..2018, 2092..2193, 2290..2334, 2433..2483		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o3.tm	Method	TBLASTX:Maize
Start	5654	End	6024
GI	none	Score	114
Exons	5654..5791, 5784..5915, 5923..6024		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o4.tw	Method	TBLASTX:Wheat
Start	5654	End	5994
GI	none	Score	167
Exons	5654..5791, 5663..5797, 5683..5799, 5784..5918, 5791..5892, 5792..5917, 5917..5994		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o1.ts	Method	TBLASTX:Soybean
Start	5935	End	6324

GI	none	Score	54
Exons	5935..5967, 5971..6210, 5974..6114, 6087..6209, 6211..6324, 6225..6323		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o5.tw	Method	TBLASTX:Wheat
Start	6043	End	6354
GI	none	Score	165
Exons	6043..6201, 6073..6216, 6211..6354, 6219..6344		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o2.tm	Method	TBLASTX:Maize
Start	6211	End	6679
GI	none	Score	111
Exons	6211..6354, 6225..6341, 6368..6679, 6478..6666		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o2.tw	Method	TBLASTX:Wheat
Start	6368	End	8029
GI	none	Score	458
Exons	6368..6712, 6392..6712, 6475..6720, 6574..6720, 7991..8029		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o2.ts	Method	TBLASTX:Soybean
Start	6374	End	6619
GI	none	Score	187
Exons	6374..6619		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o3.tw	Method	TBLASTX:Wheat
Start	9337	End	11546
GI	none	Score	181
Exons	9337..9558, 9381..9557, 9543..9623, 9551..9622, 9621..9719, 9622..9729, 11215..11325, 11223..11318, 11505..11546		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o4.gs	Method	GENSCAN
Start	11015	End	12099
GI	none	Score	.53
Exons	11015..11190, 11892..12099		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o1.tw	Method	TBLASTX:Wheat

Start	11556	End	12153
GI	none	Score	71
Exons	11556..11639, 11651..11968, 11652..11972, 11673..11969, 11955..12152, 11962..12153		

Seq. No.	27497	Seq. ID	OJ000150_15.0124.C25
Gene No.	56839	Strand	-
Start	11015	End	12161
Name	OJ000150_15.0124.C25.o1.tm	Method	TBLASTX:Maize
Start	11706	End	12161
GI	none	Score	180
Exons	11706..11867, 11712..11780, 11714..11860, 11806..11862, 11865..11963, 11955..12161, 11962..12156		

Seq. No.	27498	Seq. ID	OJ000150_15.0124.C26
Gene No.	56840	Strand	+
Start	1	End	206
Name	OJ000150_15.0124.C26.o1.np	Method	AAT/NAP
Start	1	End	206
GI	4512673	Score	181
Exons	1..206		
GI Descrip.	(AC006931) putative phosphoprotein phosphatase [Arabidopsis thaliana]		

Seq. No.	27498	Seq. ID	OJ000150_15.0124.C26
Gene No.	56840	Strand	+
Start	1	End	206
Name	OJ000150_15.0124.C26.o1.tm	Method	TBLASTX:Maize
Start	45	End	206
GI	none	Score	54
Exons	45..173, 46..201, 47..205, 48..206		

Seq. No.	27498	Seq. ID	OJ000150_15.0124.C26
Gene No.	56840	Strand	+
Start	1	End	206
Name	OJ000150_15.0124.C26.o1.ts	Method	TBLASTX:Soybean
Start	47	End	202
GI	none	Score	194
Exons	47..202, 64..201		

Seq. No.	27498	Seq. ID	OJ000150_15.0124.C26
Gene No.	56840	Strand	+
Start	1	End	206
Name	OJ000150_15.0124.C26.o1.tc	Method	TBLASTX:Cress
Start	50	End	205
GI	none	Score	213
Exons	50..205, 52..201, 78..203		

Seq. No.	27499	Seq. ID	OJ000150_15.0124.C28
Gene No.	56841	Strand	+
Start	1	End	349
Name	OJ000150_15.0124.C28.o1.np	Method	AAT/NAP
Start	1	End	349
GI	2119980	Score	605
Exons	1..349		
GI Descrip.	transposase (transposons) - Escherichia coli gi 43089 emb CAA42760  (X60200) transposase [Escherichia coli]		

gi|303566|dbj|BA003914| (D16449) transposase [Escherichia coli]

Seq. No.	27499	Seq. ID	OJ000150_15.0124.C28
Gene No.	56841	Strand	+
Start	1	End	349
Name	OJ000150_15.0124.C28.ol.gs	Method	GENSCAN
Start	76	End	275
GI	none	Score	.8
Exons	76..275		

Seq. No.	27500	Seq. ID	OJ000150_15.0124.C30
Gene No.	56842	Strand	-
Start	1	End	327
Name	OJ000150_15.0124.C30.ol.np	Method	AAT/NAP
Start	1	End	321
GI	3618316	Score	207
Exons	1..321		
GI Descrip.	(AB001886) zinc finger protein [Oryza sativa]		

Seq. No.	27500	Seq. ID	OJ000150_15.0124.C30
Gene No.	56842	Strand	-
Start	1	End	327
Name	OJ000150_15.0124.C30.ol.gs	Method	GENSCAN
Start	97	End	321
GI	none	Score	.99
Exons	97..321		

Seq. No.	27500	Seq. ID	OJ000150_15.0124.C30
Gene No.	56842	Strand	-
Start	1	End	327
Name	OJ000150_15.0124.C30.ol.ts	Method	TBLASTX:Soybean
Start	97	End	324
GI	none	Score	180
Exons	97..114, 190..324		

Seq. No.	27500	Seq. ID	OJ000150_15.0124.C30
Gene No.	56842	Strand	-
Start	1	End	327
Name	OJ000150_15.0124.C30.ol.tc	Method	TBLASTX:Cress
Start	97	End	324
GI	none	Score	184
Exons	97..114, 190..324		

Seq. No.	27500	Seq. ID	OJ000150_15.0124.C30
Gene No.	56842	Strand	-
Start	1	End	327
Name	OJ000150_15.0124.C30.ol.tm	Method	TBLASTX:Maize
Start	190	End	327
GI	none	Score	182
Exons	190..327, 190..309		

Seq. No.	27501	Seq. ID	OJ000150_15.0124.C34
Gene No.	56843	Strand	+
Start	584	End	639
Name	OJ000150_15.0124.C34.ol.gs	Method	GENSCAN
Start	584	End	639
GI	none	Score	.59

Exons 584..639

Seq. No.	27502	Seq. ID	OJ000150_15.0124.C36
Gene No.	56844	Strand	-
Start	1	End	145
Name	OJ000150_15.0124.C36.o1.gp	Method	AAT/GAP
Start	1	End	145
GI	62810_1.R1084	Score	286
Exons	1..145		
GI Descrip.	'1076748/pir  S52003 5.0e-12 major intrinsic protein - rice >gi_440869_dbj_BAA04257_ (D17443) major intrinsic protein [Oryza sativa]'		

Seq. No.	27503	Seq. ID	OJ000150_14.0124.C1
Gene No.	56845	Strand	-
Start	1	End	565
Name	OJ000150_14.0124.C1.o1.np	Method	AAT/NAP
Start	1	End	565
GI	6539570	Score	126
Exons	1..162, 350..565		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	27503	Seq. ID	OJ000150_14.0124.C1
Gene No.	56845	Strand	-
Start	1	End	565
Name	OJ000150_14.0124.C1.o1.gs	Method	GENSCAN
Start	311	End	500
GI	none	Score	.4
Exons	311..500		

Seq. No.	27504	Seq. ID	OJ000150_14.0124.C2
Gene No.	56846	Strand	-
Start	180	End	604
Name	OJ000150_14.0124.C2.o1.gs	Method	GENSCAN
Start	180	End	604
GI	none	Score	.86
Exons	180..215, 536..604		

Seq. No.	27505	Seq. ID	OJ000150_14.0124.C4
Gene No.	56847	Strand	+
Start	47	End	362
Name	OJ000150_14.0124.C4.o1.gs	Method	GENSCAN
Start	47	End	362
GI	none	Score	.81
Exons	47..114, 236..362		

Seq. No.	27506	Seq. ID	OJ000150_14.0124.C5
Gene No.	56848	Strand	+
Start	290	End	538
Name	OJ000150_14.0124.C5.o1.gp	Method	AAT/GAP
Start	290	End	538
GI	57713_5.R1084	Score	405
Exons	290..538		
GI Descrip.	'6015116/sp O82653 ERG ARATH 3.0e-34 GTP-BINDING PROTEIN ERG >gi_3676071_emb_CAA76979_ (Y17969) ERG protein [Arabidopsis thaliana]'		

Seq. No. 27507  
 Gene No. 56849  
 Start 177  
 Name OJ000150\_14.0124.C6.o1.gs  
 Start 177  
 GI none  
 Exons 177..545

Seq. ID OJ000150\_14.0124.C6  
 Strand +  
 End 545  
 Method GENSCAN  
 End 545  
 Score .87

Seq. No. 27508  
 Gene No. 56850  
 Start 521  
 Name OJ000150\_14.0124.C7.o1.gs  
 Start 521  
 GI none  
 Exons 521..619

Seq. ID OJ000150\_14.0124.C7  
 Strand +  
 End 619  
 Method GENSCAN  
 End 619  
 Score .92

Seq. No. 27509  
 Gene No. 56851  
 Start 9889  
 Name OJ000150\_14.0124.C8.o2.np  
 Start 9889  
 GI 4982518  
 Exons 9889..9948, 11607..12354, 12691..13201  
 GI Descrip. (AC000107) F17F8.24 [Arabidopsis thaliana]

Seq. ID OJ000150\_14.0124.C8  
 Strand +  
 End 13201  
 Method AAT/NAP  
 End 13201  
 Score 390

Seq. No. 27509  
 Gene No. 56852  
 Start 15210  
 Name OJ000150\_14.0124.C8.o2.gs  
 Start 15210  
 GI none  
 Exons 15210..15358, 15441..15601, 15763..15935

Seq. ID OJ000150\_14.0124.C8  
 Strand +  
 End 15935  
 Method GENSCAN  
 End 15935  
 Score .92

Seq. No. 27509  
 Gene No. 56853  
 Start 18945  
 Name OJ000150\_14.0124.C8.o4.gs  
 Start 18945  
 GI none  
 Exons 18945..19085, 19473..19590, 20454..20566, 20963..21109, 21381..21570, 21599..22119

Seq. ID OJ000150\_14.0124.C8  
 Strand +  
 End 22119  
 Method GENSCAN  
 End 22119  
 Score .73

Seq. No. 27509  
 Gene No. 56854  
 Start 24699  
 Name OJ000150\_14.0124.C8.o4.np  
 Start 24699  
 GI 6721547  
 Exons 24699..24783  
 GI Descrip. (AP001073) Similar to Oryza sativa gene for Pib. (AB013448)

Seq. ID OJ000150\_14.0124.C8  
 Strand +  
 End 24783  
 Method AAT/NAP  
 End 24783  
 Score 95

Seq. No. 27509  
 Gene No. 56855  
 Start 26620  
 Name OJ000150\_14.0124.C8.o5.np  
 Start 26620  
 GI 5257266

Seq. ID OJ000150\_14.0124.C8  
 Strand +  
 End 27067  
 Method AAT/NAP  
 End 27067  
 Score 176



Exons 26620..26660, 26827..27067  
 GI Descrip. (AP000364) EST C99024(E4337) corresponds to a region of the predicted gene.; Similar to Silk moth; silkworm final instar larvae posterior. (D83241) [Oryza sativa]

Seq. No. 27509 Seq. ID OJ000150\_14.0124.C8  
 Gene No. 56856 Strand +  
 Start 27610 End 28530  
 Name OJ000150\_14.0124.C8.o6.np Method AAT/NAP  
 Start 27610 End 28530  
 GI 4755191 Score 323  
 Exons 27610..28530  
 GI Descrip. (AC007018) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]

Seq. No. 27509 Seq. ID OJ000150\_14.0124.C8  
 Gene No. 56857 Strand +  
 Start 32900 End 36873  
 Name OJ000150\_14.0124.C8.o6.gs Method GENSCAN  
 Start 32900 End 36105  
 GI none Score .67  
 Exons 32900..32974, 32992..33105, 33502..33651, 33926..34003, 34321..34398, 35001..35249, 35283..35549, 36019..36105

Seq. No. 27509 Seq. ID OJ000150\_14.0124.C8  
 Gene No. 56857 Strand +  
 Start 32900 End 36873  
 Name OJ000150\_14.0124.C8.o9.np Method AAT/NAP  
 Start 32913 End 36873  
 GI 5922620 Score 741  
 Exons 32913..32951, 32992..33126, 34440..34514, 34616..34741, 35071..35246, 35283..35367, 36743..36873  
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 27509 Seq. ID OJ000150\_14.0124.C8  
 Gene No. 56858 Strand +  
 Start 37054 End 45277  
 Name OJ000150\_14.0124.C8.o7.gs Method GENSCAN  
 Start 37054 End 38824  
 GI none Score .84  
 Exons 37054..37473, 37744..38046, 38240..38366, 38814..38824

Seq. No. 27509 Seq. ID OJ000150\_14.0124.C8  
 Gene No. 56858 Strand +  
 Start 37054 End 45277  
 Name OJ000150\_14.0124.C8.o10.np Method AAT/NAP  
 Start 37169 End 45277  
 GI 3924603 Score 962  
 Exons 37169..37211, 39583..39920, 40053..40172, 41173..41250, 42218..42391, 43302..43379, 43796..43988, 44229..44375, 45186..45277  
 GI Descrip. (AF069442) putative WD-repeat protein [Arabidopsis thaliana]

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56858	Strand	+
Start	37054	End	45277
Name	OJ000150_14.0124.C8.o8.gs	Method	GENSCAN
Start	39552	End	43972
GI	none	Score	.83
Exons	39552..39920, 40053..40172, 41173..41250, 41888..41932, 42218..42391, 43302..43379, 43796..43972		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56858	Strand	+
Start	37054	End	45277
Name	OJ000150_14.0124.C8.o4.gp	Method	AAT/GAP
Start	39567	End	39920
GI	2310412	Score	688
Exons	39567..39920		
GI Descrip.	3924603 9.0e-20 (AF069442) putative WD-repeat protein [Arabidopsis thaliana]		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56858	Strand	+
Start	37054	End	45277
Name	OJ000150_14.0124.C8.o5.gp	Method	AAT/GAP
Start	42200	End	44295
GI	uC-osflcyp110b07b1	Score	947
Exons	42200..42391, 43302..43379, 43796..43968, 44215..44295		
GI Descrip.	'3122326/sp Q40153 L14B_LITER 9.0e-64 LEC14B PROTEIN >gi_1181604_dbj_BAA11768_ (D83074) LEC14B protein [Lithospermum erythrorhizon]'		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56859	Strand	-
Start	53	End	14114
Name	OJ000150_14.0124.C8.o1.gs	Method	GENSCAN
Start	53	End	14114
GI	none	Score	.49
Exons	53..425, 562..630, 1448..1550, 1637..2154, 2850..3715, 3869..4178, 4283..4630, 4837..5263, 5342..6712, 6807..6872, 6969..7230, 7744..7819, 9088..9170, 9311..9420, 9522..9674, 9978..10269, 10415..10525, 10665..10744, 10940..11269, 11489..11566, 11949..11965, 12198..12248, 14026..14114		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56859	Strand	-
Start	53	End	14114
Name	OJ000150_14.0124.C8.o1.np	Method	AAT/NAP
Start	2459	End	7484
GI	4585985	Score	2162
Exons	2459..3339, 3367..3990, 4119..5263, 5342..5818, 6041..6584, 7445..7484		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56860	Strand	-
Start	16358	End	21875
Name	OJ000150_14.0124.C8.o3.np	Method	AAT/NAP
Start	16358	End	21875

GI 4539660 Score 1474  
 Exons 16358..17726, 21757..21875  
 GI Descrip. (AF061282) polyprotein [Sorghum bicolor]

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56860	Strand	-
Start	16358	End	21875
Name	OJ000150_14.0124.C8.o3.gs	Method	GENSCAN
Start	16403	End	16975
GI	none	Score	.99
Exons	16403..16975		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56861	Strand	-
Start	32191	End	32648
Name	OJ000150_14.0124.C8.o7.np	Method	AAT/NAP
Start	32191	End	32648
GI	6539570	Score	188
Exons	32191..32257, 32445..32648		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o12.tm	Method	TBLASTX:Maize
Start	233	End	1258
GI	none	Score	72
Exons	233..358, 371..490, 372..491, 546..662, 1037..1099, 1193..1258		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o13.tm	Method	TBLASTX:Maize
Start	1749	End	2147
GI	none	Score	106
Exons	1749..1904, 2001..2147		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o4.ts	Method	TBLASTX:Soybean
Start	2555	End	2738
GI	none	Score	87
Exons	2555..2737, 2574..2738, 2589..2735		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o11.tm	Method	TBLASTX:Maize
Start	2663	End	2983
GI	none	Score	56
Exons	2663..2737, 2664..2744, 2747..2983, 2844..2981		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o1.tc	Method	TBLASTX:Cress

Start 2729  
GI none  
Exons 2729..2974

End 2974  
Score 196

Seq. No. 27509  
Gene No. 56862  
Start 32775  
Name OJ000150\_14.0124.C8.o7.tm  
Start 3290  
GI none  
Exons 3290..3658, 3399..3659

Seq. ID OJ000150\_14.0124.C8  
Strand -  
End 34119  
Method TBLASTX:Maize  
End 3659  
Score 171

Seq. No. 27509  
Gene No. 56862  
Start 32775  
Name OJ000150\_14.0124.C8.o9.tm  
Start 3803  
GI none  
Exons 3803..4024, 4037..4102, 4190..4258

Seq. ID OJ000150\_14.0124.C8  
Strand -  
End 34119  
Method TBLASTX:Maize  
End 4258  
Score 74

Seq. No. 27509  
Gene No. 56862  
Start 32775  
Name OJ000150\_14.0124.C8.o6.tm  
Start 5190  
GI none  
Exons 5190..5264, 5343..5462, 5356..5475, 5466..5591, 5473..5595

Seq. ID OJ000150\_14.0124.C8  
Strand -  
End 34119  
Method TBLASTX:Maize  
End 5595  
Score 77

Seq. No. 27509  
Gene No. 56862  
Start 32775  
Name OJ000150\_14.0124.C8.o5.tw  
Start 5478  
GI none  
Exons 5478..5753, 5479..5628

Seq. ID OJ000150\_14.0124.C8  
Strand -  
End 34119  
Method TBLASTX:Wheat  
End 5753  
Score 124

Seq. No. 27509  
Gene No. 56862  
Start 32775  
Name OJ000150\_14.0124.C8.o1.tm  
Start 5598  
GI none  
Exons 5598..5879, 5686..5841, 5883..6332, 6348..6401

Seq. ID OJ000150\_14.0124.C8  
Strand -  
End 34119  
Method TBLASTX:Maize  
End 6401  
Score 75

Seq. No. 27509  
Gene No. 56862  
Start 32775  
Name OJ000150\_14.0124.C8.o3.tm  
Start 11819  
GI none  
Exons 11819..11965, 12008..12121, 12123..12347, 12194..12352, 12702..13076, 13107..13133, 27612..27761, 27613..28215, 27736..28095, 27942..28214

Seq. ID OJ000150\_14.0124.C8  
Strand -  
End 34119  
Method TBLASTX:Maize  
End 28215  
Score 113

Seq. No. 27509  
Gene No. 56862  
Start 32775

Seq. ID OJ000150\_14.0124.C8  
Strand -  
End 34119

Name	OJ000150_14.0124.C8.o6.tw	Method	TBLASTX:Wheat
Start	12123	End	27963
GI	none	Score	162
Exons	12123..12299, 12309..12362, 12708..12791, 12814..12840, 27577..27729, 27618..27722, 27739..27891, 27843..27890, 27883..27963		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o2.ts	Method	TBLASTX:Soybean
Start	12717	End	28331
GI	none	Score	53
Exons	12717..12773, 12828..13067, 13149..13196, 27820..27876, 27946..28173, 28162..28272, 28263..28331		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o4.tw	Method	TBLASTX:Wheat
Start	12867	End	28520
GI	none	Score	233
Exons	12867..13199, 27970..28281, 28263..28331, 28404..28520		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o1.tw	Method	TBLASTX:Wheat
Start	16370	End	16789
GI	none	Score	138
Exons	16370..16789, 16371..16748, 16637..16750		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o2.tm	Method	TBLASTX:Maize
Start	16553	End	17169
GI	none	Score	69
Exons	16553..16984, 16566..16745, 16818..16976, 17011..17133, 17016..17126, 17134..17169		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o3.tw	Method	TBLASTX:Wheat
Start	16815	End	17348
GI	none	Score	124
Exons	16815..16985, 16835..16984, 16978..17136, 16979..17071, 17122..17238, 17232..17348		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o5.tm	Method	TBLASTX:Maize
Start	17287	End	17543
GI	none	Score	223
Exons	17287..17541, 17289..17543		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o1.ts	Method	TBLASTX:Soybean
Start	17307	End	17556
GI	none	Score	143
Exons	17307..17555, 17308..17556		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o2.tw	Method	TBLASTX:Wheat
Start	17354	End	17705
GI	none	Score	150
Exons	17354..17599, 17355..17606, 17355..17705, 17359..17691		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o4.tm	Method	TBLASTX:Maize
Start	17732	End	28889
GI	none	Score	54
Exons	17732..17884, 17920..17979, 28418..28636, 28419..28790, 28656..28790, 28808..28885, 28857..28889		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o7.tw	Method	TBLASTX:Wheat
Start	17920	End	28943
GI	none	Score	80
Exons	17920..18024, 28617..28805, 28821..28937, 28857..28943		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o14.tm	Method	TBLASTX:Maize
Start	18219	End	29338
GI	none	Score	132
Exons	18219..18386, 29060..29230, 29095..29229, 29104..29247, 29252..29338		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o8.tm	Method	TBLASTX:Maize
Start	26737	End	27050
GI	none	Score	98
Exons	26737..26862, 26740..26931, 26741..26938, 26756..26950, 26940..26969, 26940..26987, 26942..26980, 26943..27050, 26987..27049		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56862	Strand	-
Start	32775	End	34119
Name	OJ000150_14.0124.C8.o8.np	Method	AAT/NAP

Start	32775	End	34119
GI	6630699	Score	64
Exons	32775..32852, 34100..34119		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56863	Strand	
Start	43299	End	44364
Name	OJ000150_14.0124.C8.o10.tm	Method	TBLASTX:Maize
Start	43299	End	44359
GI	none	Score	125
Exons	43299..43382, 43301..43390, 43793..44038, 43835..43963, 44233..44340, 44234..44356, 44342..44359		

Seq. No.	27509	Seq. ID	OJ000150_14.0124.C8
Gene No.	56863	Strand	
Start	43299	End	44364
Name	OJ000150_14.0124.C8.o3.ts	Method	TBLASTX:Soybean
Start	43820	End	44364
GI	none	Score	206
Exons	43820..43963, 43822..43962, 44225..44362, 44233..44361, 44236..44364		

Seq. No.	27510	Seq. ID	OJ000150_14.0124.C9
Gene No.	56864	Strand	+
Start	1	End	1933
Name	OJ000150_14.0124.C9.o2.np	Method	AAT/NAP
Start	1	End	1838
GI	3122313	Score	186
Exons	1..29, 799..862, 1650..1838		
GI Descrip.	LEC14B HOMOLOG gi 2351587 (U82760) LEC14B homolog [Prunus armeniaca]		

Seq. No.	27510	Seq. ID	OJ000150_14.0124.C9
Gene No.	56864	Strand	+
Start	1	End	1933
Name	OJ000150_14.0124.C9.o1.gs	Method	GENSCAN
Start	479	End	1933
GI	none	Score	.41
Exons	479..589, 769..813, 1863..1933		

Seq. No.	27510	Seq. ID	OJ000150_14.0124.C9
Gene No.	56865	Strand	-
Start	1	End	1832
Name	OJ000150_14.0124.C9.o1.np	Method	AAT/NAP
Start	1	End	1830
GI	4539462	Score	105
Exons	1..72, 195..624, 1796..1830		
GI Descrip.	(AL049500) putative protein [Arabidopsis thaliana]		

Seq. No.	27510	Seq. ID	OJ000150_14.0124.C9
Gene No.	56865	Strand	-
Start	1	End	1832
Name	OJ000150_14.0124.C9.o1.tm	Method	TBLASTX:Maize
Start	169	End	590

GI	none	Score	62
Exons	169..315, 170..316, 204..353, 280..342, 348..590, 349..507, 432..590		

Seq. No.	27510	Seq. ID	OJ000150_14.0124.C9
Gene No.	56865	Strand	-
Start	1	End	1832
Name	OJ000150_14.0124.C9.o1.tw	Method	TBLASTX:Wheat
Start	186	End	519
GI	none	Score	167
Exons	186..509, 244..519		

Seq. No.	27510	Seq. ID	OJ000150_14.0124.C9
Gene No.	56865	Strand	-
Start	1	End	1832
Name	OJ000150_14.0124.C9.o2.tm	Method	TBLASTX:Maize
Start	798	End	1832
GI	none	Score	87
Exons	798..863, 800..865, 801..866, 803..865, 1652..1831, 1653..1832		

Seq. No.	27511	Seq. ID	OJ000150_14.0124.C10
Gene No.	56866	Strand	+
Start	1015	End	10008
Name	OJ000150_14.0124.C10.o1.gs	Method	GENSCAN
Start	1015	End	9988
GI	none	Score	.74
Exons	1015..1067, 2402..2519, 2592..3275, 4353..4381, 4410..4560, 4566..4755, 6740..6892, 7434..7957, 8035..8157, 8344..8457, 8679..8841, 9393..9988		

Seq. No.	27511	Seq. ID	OJ000150_14.0124.C10
Gene No.	56866	Strand	+
Start	1015	End	10008
Name	OJ000150_14.0124.C10.o1.np	Method	AAT/NAP
Start	5731	End	10008
GI	4914343	Score	456
Exons	5731..5752, 9525..10008		
GI Descrip.	(AC005489) F14N23.29 [Arabidopsis thaliana]		

Seq. No.	27511	Seq. ID	OJ000150_14.0124.C10
Gene No.	56866	Strand	+
Start	1015	End	10008
Name	OJ000150_14.0124.C10.o1.gp	Method	AAT/GAP
Start	7548	End	7817
GI	uC-osflcyp144f04b1	Score	490
Exons	7548..7817		
GI Descrip.	'5852077/emb AL117264.1 OSB6015 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone: b6015'		

Seq. No.	27511	Seq. ID	OJ000150_14.0124.C10
Gene No.	56867	Strand	+
Start	15216	End	23162
Name	OJ000150_14.0124.C10.o3.gs	Method	GENSCAN
Start	15216	End	23162
GI	none	Score	.75
Exons	15216..15232, 19414..19481, 21361..21455, 22469..22715, 22855..23162		



Seq. No.	27511	Seq. ID	OJ000150_14.0124.C10
Gene No.	56868	Strand	+
Start	29255	End	30124
Name	OJ000150_14.0124.C10.o5.gs	Method	GENSCAN
Start	29255	End	30124
GI	none	Score	.62
Exons	29255..30124		

Seq. No.	27511	Seq. ID	OJ000150_14.0124.C10
Gene No.	56869	Strand	-
Start	24167	End	25883
Name	OJ000150_14.0124.C10.o1.ts	Method	TBLASTX:Soybean
Start	9518	End	9996
GI	none	Score	517
Exons	9518..9985, 9556..9978, 9745..9996		

Seq. No.	27511	Seq. ID	OJ000150_14.0124.C10
Gene No.	56869	Strand	-
Start	24167	End	25883
Name	OJ000150_14.0124.C10.o1.tm	Method	TBLASTX:Maize
Start	9536	End	10001
GI	none	Score	362
Exons	9536..9847, 9553..9849, 9742..9870, 9822..9968, 9860..9982, 9862..9978, 9879..10001		

Seq. No.	27511	Seq. ID	OJ000150_14.0124.C10
Gene No.	56869	Strand	-
Start	24167	End	25883
Name	OJ000150_14.0124.C10.o4.gs	Method	GENSCAN
Start	24167	End	25883
GI	none	Score	.78
Exons	24167..24309, 24712..24966, 25856..25883		

Seq. No.	27512	Seq. ID	OJ000150_14.0124.C11
Gene No.	56870	Strand	+
Start	1	End	880
Name	OJ000150_14.0124.C11.o1.np	Method	AAT/NAP
Start	1	End	732
GI	1785621	Score	822
Exons	1..732		
GI Descrip.	(284202) AtPK2324 [Arabidopsis thaliana] gi 2465927 (AF024650) receptor-like serine/threonine kinase [Arabidopsis thaliana] gi 4249408 gb AAD13705.1  (AC006072) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	27512	Seq. ID	OJ000150_14.0124.C11
Gene No.	56870	Strand	+
Start	1	End	880
Name	OJ000150_14.0124.C11.o1.tc	Method	TBLASTX:Cress
Start	1	End	677
GI	none	Score	750
Exons	1..561, 3..98, 16..324, 174..554, 577..633, 582..647, 639..677		

Seq. No.	27512	Seq. ID	OJ000150_14.0124.C11
Gene No.	56870	Strand	+
Start	1	End	880

Name	OJ000150_14.0124.C11.o1.ts	Method	TBLASTX:Soybean
Start	13	End	555
GI	none	Score	361
Exons	13..336, 19..336, 174..338, 216..422, 376..555		
Seq. No.	27512	Seq. ID	OJ000150_14.0124.C11
Gene No.	56870	Strand	+
Start	1	End	880
Name	OJ000150_14.0124.C11.o1.tw	Method	TBLASTX:Wheat
Start	22	End	342
GI	none	Score	324
Exons	22..342, 174..341		
Seq. No.	27512	Seq. ID	OJ000150_14.0124.C11
Gene No.	56870	Strand	+
Start	1	End	880
Name	OJ000150_14.0124.C11.o1.tm	Method	TBLASTX:Maize
Start	35	End	444
GI	none	Score	599
Exons	35..388, 37..444, 37..444		
Seq. No.	27512	Seq. ID	OJ000150_14.0124.C11
Gene No.	56870	Strand	+
Start	1	End	880
Name	OJ000150_14.0124.C11.o1.gs	Method	GENSCAN
Start	58	End	738
GI	none	Score	.69
Exons	58..738		
Seq. No.	27512	Seq. ID	OJ000150_14.0124.C11
Gene No.	56870	Strand	+
Start	1	End	880
Name	OJ000150_14.0124.C11.o2.tm	Method	TBLASTX:Maize
Start	444	End	880
GI	none	Score	374
Exons	444..800, 445..810, 571..810, 851..880		
Seq. No.	27513	Seq. ID	OJ000150_14.0124.C12
Gene No.	56871	Strand	-
Start	2313	End	3499
Name	OJ000150_14.0124.C12.o2.tm	Method	TBLASTX:Maize
Start	1289	End	2182
GI	none	Score	107
Exons	1289..1474, 1514..1591, 1687..1896, 1688..1846, 2138..2182		
Seq. No.	27513	Seq. ID	OJ000150_14.0124.C12
Gene No.	56871	Strand	-
Start	2313	End	3499
Name	OJ000150_14.0124.C12.o1.np	Method	AAT/NAP
Start	2313	End	3499
GI	6815062	Score	1138
Exons	2313..3499		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		
Seq. No.	27513	Seq. ID	OJ000150_14.0124.C12

Gene No.	56871	Strand	-
Start	2313	End	3499
Name	OJ000150_14.0124.C12.o3.tm	Method	TBLASTX:Maize
Start	2486	End	2764
GI	none	Score	76
Exons	2486..2764, 2583..2708		
Seq. No.	27513	Seq. ID	OJ000150_14.0124.C12
Gene No.	56871	Strand	-
Start	2313	End	3499
Name	OJ000150_14.0124.C12.o1.tm	Method	TBLASTX:Maize
Start	2891	End	3457
GI	none	Score	249
Exons	2891..3280, 2913..3281, 3308..3457		
Seq. No.	27514	Seq. ID	OJ000150_14.0124.C13
Gene No.	56872	Strand	-
Start	264	End	653
Name	OJ000150_14.0124.C13.o1.tm	Method	TBLASTX:Maize
Start	264	End	653
GI	none	Score	108
Exons	264..593, 324..602, 591..653		
Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56873	Strand	+
Start	1666	End	6695
Name	OJ000150_14.0124.C14.o1.gs	Method	GENSCAN
Start	1666	End	6695
GI	none	Score	.6
Exons	1666..1802, 2314..2378, 3065..3438, 4762..4840, 6096..6274, 6447..6695		
Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56873	Strand	+
Start	1666	End	6695
Name	OJ000150_14.0124.C14.o1.np	Method	AAT/NAP
Start	3271	End	5284
GI	6815052	Score	136
Exons	3271..3420, 3481..3566, 5253..5284		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		
Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56874	Strand	+
Start	6985	End	7811
Name	OJ000150_14.0124.C14.o1.gp	Method	AAT/GAP
Start	6985	End	7811
GI	none	Score	1601
Exons	6985..7811		
Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56875	Strand	+
Start	15457	End	15804
Name	OJ000150_14.0124.C14.o4.gs	Method	GENSCAN
Start	15457	End	15804
GI	none	Score	.73
Exons	15457..15804		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56876	Strand	+
Start	22730	End	25082
Name	OJ000150_14.0124.C14.o6.gs	Method	GENSCAN
Start	22730	End	25082
GI	none	Score	.54
Exons	22730..22811, 22907..23031, 23227..23517, 23799..23824, 24100..24184, 24849..25082		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o2.tm	Method	TBLASTX:Maize
Start	5205	End	13984
GI	none	Score	66
Exons	5205..5324, 5235..5414, 5239..5373, 5240..5383, 5376..5468, 5376..5519, 5403..5492, 5493..5555, 5557..5682, 5571..5696, 5572..5679, 5579..5686, 5580..5684, 5597..5680, 5610..5693, 5730..5780, 5750..5788, 5768..5836, 13015..13131, 13015..13122, 13030..13125, 13032..13166, 13033..13131, 13044..13133, 13046..13222, 13054..13125, 13133..13273, 13148..13273, 13158..13277, 13166..13279, 13167..13280, 13173..13286, 13176..13286, 13178..13279, 13181..13288, 13181..13285, 13314..13481, 13320..13439, 13322..13438, 13328..13441, 13332..13442, 13334..13474, 13334..13435, 13335..13574, 13336..13566, 13337..13480, 13416..13442, 13423..13482, 13424..13669, 13467..13655, 13510..13662, 13525..13662, 13548..13634, 13548..13676, 13551..13676, 13557..13658, 13558..13680, 13558..13680, 13705..13824, 13710..13817, 13710..13823, 13711..13839, 13713..13835, 13717..13839, 13822..13887, 13824..13886, 13825..13899, 13937..13984		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o3.tw	Method	TBLASTX:Wheat
Start	10276	End	20163
GI	none	Score	65
Exons	10276..10347, 19786..19929, 19788..19940, 19936..20163, 19993..20076		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o3.tm	Method	TBLASTX:Maize
Start	19881	End	20353
GI	none	Score	60
Exons	19881..19940, 19981..20277, 20303..20353		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o2.np	Method	AAT/NAP
Start	23885	End	27264
GI	6630696	Score	1292
Exons	23885..23927, 26447..27264		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a		

region of the predicted gene.; Similar to retrovirus-related pol  
polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o7.gs	Method	GENSCAN
Start	26397	End	26984
GI	none	Score	.66
Exons	26397..26721, 26941..26984		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o1.tw	Method	TBLASTX:Wheat
Start	26420	End	27059
GI	none	Score	540
Exons	26420..27049, 26448..27059, 26452..27051		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o1.ts	Method	TBLASTX:Soybean
Start	26709	End	27107
GI	none	Score	102
Exons	26709..26882, 26886..27107, 26890..27105		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o1.tm	Method	TBLASTX:Maize
Start	26895	End	27263
GI	none	Score	72
Exons	26895..27263, 26902..27078		

Seq. No.	27515	Seq. ID	OJ000150_14.0124.C14
Gene No.	56877	Strand	-
Start	23885	End	27264
Name	OJ000150_14.0124.C14.o2.tw	Method	TBLASTX:Wheat
Start	27060	End	27252
GI	none	Score	100
Exons	27060..27251, 27060..27251, 27061..27252		

Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56878	Strand	+
Start	1495	End	3199
Name	OJ000150_14.0124.C15.o1.gs	Method	GENSCAN
Start	1495	End	3199
GI	none	Score	.67
Exons	1495..1718, 2330..2446, 2572..2659, 2844..2961, 3063..3199		

Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56879	Strand	+
Start	6131	End	6528
Name	OJ000150_14.0124.C15.o2.gp	Method	AAT/GAP
Start	6131	End	6528
GI	none	Score	513

Exons 6131..6361, 6436..6528

Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56880	Strand	+
Start	8604	End	8851
Name	OJ000150_14.0124.C15.o4.gp	Method	AAT/GAP
Start	8604	End	8851
GI	57713_5.R1084	Score	405
Exons	8604..8851		
GI Descrip.	'6015116/sp O82653 ERG ARATH 3.0e-34 GTP-BINDING PROTEIN ERG >gi_3676071_emb_CAA76979_ (Y17969) ERG protein [Arabidopsis thaliana]'		

Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56881	Strand	-
Start	1	End	1896
Name	OJ000150_14.0124.C15.o1.np	Method	AAT/NAP
Start	1	End	1896
GI	6630696	Score	1731
Exons	1..431, 1177..1896		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56881	Strand	-
Start	1	End	1896
Name	OJ000150_14.0124.C15.o1.gp	Method	AAT/GAP
Start	1162	End	1854
GI	101595_1.R1084	Score	1185
Exons	1162..1854		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56882	Strand	-
Start	3494	End	6680
Name	OJ000150_14.0124.C15.o2.np	Method	AAT/NAP
Start	3494	End	6680
GI	4567294	Score	139
Exons	3494..3807, 6659..6680		
GI Descrip.	(AC006918) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56882	Strand	-
Start	3494	End	6680
Name	OJ000150_14.0124.C15.o2.gs	Method	GENSCAN
Start	3717	End	6510
GI	none	Score	.76
Exons	3717..4078, 4474..4771, 6424..6510		

Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56883	Strand	-
Start	9154	End	10326
Name	OJ000150_14.0124.C15.o3.gs	Method	GENSCAN
Start	9154	End	10326

GI	none	Score	.72
Exons	9154..9360, 9714..9801, 10271..10326		
Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56884	Strand	-
Start	11148	End	14411
Name	OJ000150_14.0124.C15.o1.tm	Method	TBLASTX:Maize
Start	11	End	317
GI	none	Score	109
Exons	11..145, 12..146, 109..297, 126..317, 136..294, 143..298		
Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56884	Strand	-
Start	11148	End	14411
Name	OJ000150_14.0124.C15.o2.tm	Method	TBLASTX:Maize
Start	1549	End	1855
GI	none	Score	119
Exons	1549..1740, 1549..1830, 1611..1760, 1625..1855		
Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56884	Strand	-
Start	11148	End	14411
Name	OJ000150_14.0124.C15.o1.tw	Method	TBLASTX:Wheat
Start	1605	End	1965
GI	none	Score	165
Exons	1605..1787, 1606..1827, 1625..1864, 1867..1965		
Seq. No.	27516	Seq. ID	OJ000150_14.0124.C15
Gene No.	56884	Strand	-
Start	11148	End	14411
Name	OJ000150_14.0124.C15.o4.gs	Method	GENSCAN
Start	11148	End	14411
GI	none	Score	.66
Exons	11148..11214, 13818..13898, 14326..14411		
Seq. No.	27517	Seq. ID	OJ000150_14.0124.C16
Gene No.	56885	Strand	-
Start	1	End	473
Name	OJ000150_14.0124.C16.o1.np	Method	AAT/NAP
Start	1	End	473
GI	6967113	Score	183
Exons	1..473		
GI Descrip.	(AL138652) putative protein [Arabidopsis thaliana]		
Seq. No.	27517	Seq. ID	OJ000150_14.0124.C16
Gene No.	56886	Strand	-
Start	918	End	1060
Name	OJ000150_14.0124.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	454
GI	none	Score	115
Exons	1..453, 7..330, 305..454		
Seq. No.	27517	Seq. ID	OJ000150_14.0124.C16
Gene No.	56886	Strand	-
Start	918	End	1060
Name	OJ000150_14.0124.C16.o1.tw	Method	TBLASTX:Wheat
Start	103	End	489

GI	none	Score	37
Exons	103..183, 175..327, 176..223, 337..489, 344..448		
Seq. No.	27517	Seq. ID	OJ000150_14.0124.C16
Gene No.	56886	Strand	-
Start	918	End	1060
Name	OJ000150_14.0124.C16.o2.np	Method	AAT/NAP
Start	918	End	1060
GI	6907106	Score	116
Exons	918..1060		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27518	Seq. ID	OJ000150_14.0124.C19
Gene No.	56887	Strand	+
Start	1	End	1002
Name	OJ000150_14.0124.C19.o1.np	Method	AAT/NAP
Start	1	End	1002
GI	6630696	Score	1469
Exons	1..1002		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27518	Seq. ID	OJ000150_14.0124.C19
Gene No.	56887	Strand	+
Start	1	End	1002
Name	OJ000150_14.0124.C19.o2.tm	Method	TBLASTX:Maize
Start	46	End	297
GI	none	Score	34
Exons	46..81, 61..201, 62..238, 202..297, 230..295		

Seq. No.	27518	Seq. ID	OJ000150_14.0124.C19
Gene No.	56887	Strand	+
Start	1	End	1002
Name	OJ000150_14.0124.C19.o2.ts	Method	TBLASTX:Soybean
Start	245	End	625
GI	none	Score	83
Exons	245..394, 377..625		

Seq. No.	27518	Seq. ID	OJ000150_14.0124.C19
Gene No.	56887	Strand	+
Start	1	End	1002
Name	OJ000150_14.0124.C19.o1.gs	Method	GENSCAN
Start	302	End	940
GI	none	Score	.53
Exons	302..940		

Seq. No.	27518	Seq. ID	OJ000150_14.0124.C19
Gene No.	56887	Strand	+
Start	1	End	1002
Name	OJ000150_14.0124.C19.o1.tm	Method	TBLASTX:Maize
Start	413	End	847
GI	none	Score	296
Exons	413..847, 664..840		

Seq. No.	27518	Seq. ID	OJ000150_14.0124.C19
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Gene No.	56887	Strand	+
Start	1	End	1002
Name	OJ000150_14.0124.C19.o1.tw	Method	TBLASTX:Wheat
Start	490	End	894
GI	none	Score	323
Exons	490..738, 491..739, 712..894, 713..892		
Seq. No.	27518	Seq. ID	OJ000150_14.0124.C19
Gene No.	56887	Strand	+
Start	1	End	1002
Name	OJ000150_14.0124.C19.o1.ts	Method	TBLASTX:Soybean
Start	635	End	856
GI	none	Score	194
Exons	635..856, 637..852		
Seq. No.	27519	Seq. ID	OJ000150_14.0124.C21
Gene No.	56888	Strand	+
Start	62	End	166
Name	OJ000150_14.0124.C21.o1.gs	Method	GENSCAN
Start	62	End	166
GI	none	Score	.85
Exons	62..166		
Seq. No.	27520	Seq. ID	OJ000150_14.0124.C23
Gene No.	56889	Strand	-
Start	491	End	617
Name	OJ000150_14.0124.C23.o1.gs	Method	GENSCAN
Start	491	End	617
GI	none	Score	.68
Exons	491..617		
Seq. No.	27521	Seq. ID	OJ000150_14.0124.C27
Gene No.	56890	Strand	+
Start	51	End	165
Name	OJ000150_14.0124.C27.o1.gs	Method	GENSCAN
Start	51	End	165
GI	none	Score	.46
Exons	51..165		
Seq. No.	27522	Seq. ID	OJ000150_14.0124.C29
Gene No.	56891	Strand	+
Start	316	End	530
Name	OJ000150_14.0124.C29.o1.gs	Method	GENSCAN
Start	316	End	530
GI	none	Score	.62
Exons	316..326, 401..530		
Seq. No.	27523	Seq. ID	OJ000150_14.0124.C32
Gene No.	56892	Strand	+
Start	213	End	273
Name	OJ000150_14.0124.C32.o1.gs	Method	GENSCAN
Start	213	End	273
GI	none	Score	.66
Exons	213..273		
Seq. No.	27524	Seq. ID	OJ000150_17.0124.C1
Gene No.	56893	Strand	-

Start	56	End	172
Name	OJ000150_17.0124.C1.ol.np	Method	AAT/NAP
Start	56	End	172
GI	3421413	Score	80
Exons	56..172		
GI Descrip.	(AF081922) protein phosphatase 2A 55 kDa B regulatory subunit [Oryza sativa] gi 3421415 (AF081923) protein phosphatase 2A 55 kDa B regulatory subunit [Oryza sativa]		

Seq. No.	27524	Seq. ID	OJ000150_17.0124.C1
Gene No.	56894	Strand	-
Start	146	End	204
Name	OJ000150_17.0124.C1.ol.gs	Method	GENSCAN
Start	146	End	204
GI	none	Score	.63
Exons	146..204		

Seq. No.	27525	Seq. ID	OJ000150_17.0124.C4
Gene No.	56895	Strand	+
Start	1	End	674
Name	OJ000150_17.0124.C4.ol.np	Method	AAT/NAP
Start	1	End	674
GI	3421413	Score	155
Exons	1..76, 172..249, 338..440, 564..674		
GI Descrip.	(AF081922) protein phosphatase 2A 55 kDa B regulatory subunit [Oryza sativa] gi 3421415 (AF081923) protein phosphatase 2A 55 kDa B regulatory subunit [Oryza sativa]		

Seq. No.	27525	Seq. ID	OJ000150_17.0124.C4
Gene No.	56895	Strand	+
Start	1	End	674
Name	OJ000150_17.0124.C4.ol.gs	Method	GENSCAN
Start	172	End	584
GI	none	Score	.45
Exons	172..249, 526..584		

Seq. No.	27526	Seq. ID	OJ000150_17.0124.C5
Gene No.	56896	Strand	-
Start	1	End	233
Name	OJ000150_17.0124.C5.ol.np	Method	AAT/NAP
Start	1	End	233
GI	6498436	Score	176
Exons	1..233		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	27526	Seq. ID	OJ000150_17.0124.C5
Gene No.	56896	Strand	-
Start	1	End	233
Name	OJ000150_17.0124.C5.ol.gs	Method	GENSCAN
Start	2	End	117
GI	none	Score	.56
Exons	2..117		

Seq. No.	27527	Seq. ID	OJ000150_17.0124.C6
Gene No.	56897	Strand	+
Start	137	End	276
Name	OJ000150_17.0124.C6.ol.gs	Method	GENSCAN

Start 137  
GI none  
Exons 137..276

End 276  
Score .76

Seq. No. 27528  
Gene No. 56898  
Start 34  
Name OJ000150\_17.0124.C7.o1.gs  
Start 34  
GI none  
Exons 34..1081

Seq. ID OJ000150\_17.0124.C7  
Strand -  
End 1324  
Method GENSCAN  
End 1081  
Score .62

Seq. No. 27528  
Gene No. 56898  
Start 34  
Name OJ000150\_17.0124.C7.o1.tm  
Start 163  
GI none  
Exons 163..210, 182..331, 224..325, 383..511, 384..509, 488..622, 490..618, 507..623

Seq. ID OJ000150\_17.0124.C7  
Strand -  
End 1324  
Method TBLASTX:Maize  
End 623  
Score 47

Seq. No. 27528  
Gene No. 56898  
Start 34  
Name OJ000150\_17.0124.C7.o1.np  
Start 419  
GI 4218122  
Exons 419..725, 759..1324  
GI Descrip. (AL035353) putative protein [Arabidopsis thaliana]

Seq. ID OJ000150\_17.0124.C7  
Strand -  
End 1324  
Method AAT/NAP  
End 1324  
Score 207

Seq. No. 27529  
Gene No. 56899  
Start 182  
Name OJ000150\_17.0124.C8.o1.gp  
Start 182  
GI 4107133  
Exons 182..429

Seq. ID OJ000150\_17.0124.C8  
Strand -  
End 430  
Method AAT/GAP  
End 429  
Score 415

Seq. No. 27529  
Gene No. 56899  
Start 182  
Name OJ000150\_17.0124.C8.o1.tm  
Start 243  
GI none  
Exons 243..422, 250..429, 251..430

Seq. ID OJ000150\_17.0124.C8  
Strand -  
End 430  
Method TBLASTX:Maize  
End 430  
Score 212

Seq. No. 27529  
Gene No. 56899  
Start 182  
Name OJ000150\_17.0124.C8.o1.gs  
Start 310  
GI none  
Exons 310..394

Seq. ID OJ000150\_17.0124.C8  
Strand -  
End 430  
Method GENSCAN  
End 394  
Score .49

Seq. No. 27530  
Gene No. 56900  
Start 1

Seq. ID OJ000150\_17.0124.C9  
Strand +  
End 616

Name	OJ000150_17.0124.C9.o2.np	Method	AAT/NAP
Start	1	End	616
GI	6815052	Score	165
Exons	1..156, 481..616		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	27531	Seq. ID	OJ000150_17.0124.C11
Gene No.	56901	Strand	-
Start	402	End	523
Name	OJ000150_17.0124.C11.o1.gs	Method	GENSCAN
Start	402	End	523
GI	none	Score	.59
Exons	402..523		

Seq. No.	27532	Seq. ID	OJ000150_17.0124.C12
Gene No.	56902	Strand	-
Start	160	End	202
Name	OJ000150_17.0124.C12.o1.gs	Method	GENSCAN
Start	160	End	202
GI	none	Score	.88
Exons	160..202		

Seq. No.	27533	Seq. ID	OJ000150_17.0124.C13
Gene No.	56903	Strand	-
Start	88	End	146
Name	OJ000150_17.0124.C13.o1.gs	Method	GENSCAN
Start	88	End	146
GI	none	Score	.91
Exons	88..146		

Seq. No.	27534	Seq. ID	OJ000150_17.0124.C16
Gene No.	56904	Strand	+
Start	1	End	586
Name	OJ000150_17.0124.C16.o1.np	Method	AAT/NAP
Start	1	End	586
GI	4971998	Score	265
Exons	1..24, 261..398, 488..586		
GI Descrip.	(Y14685) polynucleotide phosphorylase [Arabidopsis thaliana] gi 4972000 emb CAB43865.1  (Y14686) polynucleotide phosphorylase [Arabidopsis thaliana]		

Seq. No.	27535	Seq. ID	OJ000150_17.0124.C17
Gene No.	56905	Strand	+
Start	90	End	599
Name	OJ000150_17.0124.C17.o1.gs	Method	GENSCAN
Start	90	End	599
GI	none	Score	.7
Exons	90..160, 461..599		

Seq. No.	27536	Seq. ID	OJ000150_17.0124.C18
Gene No.	56906	Strand	+
Start	1	End	1456
Name	OJ000150_17.0124.C18.o1.np	Method	AAT/NAP
Start	1	End	1447
GI	6721157	Score	1071
Exons	1..140, 230..357, 473..715, 869..1121, 1216..1447		
GI Descrip.	(AC016829) putative GDSL-motif lipase/acylhydrolase [Arabidopsis		

thaliana]

Seq. No.	27536	Seq. ID	OJ000150_17.0124.C18
Gene No.	56906	Strand	+
Start	1	End	1456
Name	OJ000150_17.0124.C18.o1.ts	Method	TBLASTX:Soybean
Start	1	End	991
GI	none	Score	215
Exons	1..141, 2..142, 232..360, 240..359, 472..711, 473..712, 863..919, 868..918, 907..981, 908..991		

Seq. No.	27536	Seq. ID	OJ000150_17.0124.C18
Gene No.	56906	Strand	+
Start	1	End	1456
Name	OJ000150_17.0124.C18.o1.tc	Method	TBLASTX:Cress
Start	1	End	1444
GI	none	Score	213
Exons	1..144, 2..142, 231..359, 232..360, 472..711, 473..712, 863..1123, 877..1110, 1214..1297, 1215..1418, 1334..1444, 1343..1417		

Seq. No.	27536	Seq. ID	OJ000150_17.0124.C18
Gene No.	56906	Strand	+
Start	1	End	1456
Name	OJ000150_17.0124.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	903
GI	none	Score	238
Exons	1..144, 2..142, 230..355, 231..359, 232..360, 468..530, 472..714, 473..715, 473..715, 868..903		

Seq. No.	27536	Seq. ID	OJ000150_17.0124.C18
Gene No.	56906	Strand	+
Start	1	End	1456
Name	OJ000150_17.0124.C18.o1.gs	Method	GENSCAN
Start	95	End	1456
GI	none	Score	.58
Exons	95..140, 230..357, 473..715, 869..1152, 1216..1456		

Seq. No.	27536	Seq. ID	OJ000150_17.0124.C18
Gene No.	56906	Strand	+
Start	1	End	1456
Name	OJ000150_17.0124.C18.o2.tm	Method	TBLASTX:Maize
Start	1033	End	1441
GI	none	Score	124
Exons	1033..1110, 1034..1123, 1214..1297, 1215..1334, 1218..1334, 1334..1441, 1336..1425, 1395..1427		

Seq. No.	27536	Seq. ID	OJ000150_17.0124.C18
Gene No.	56906	Strand	+
Start	1	End	1456
Name	OJ000150_17.0124.C18.o2.ts	Method	TBLASTX:Soybean
Start	1046	End	1435
GI	none	Score	82
Exons	1046..1123, 1142..1297, 1215..1334, 1215..1334, 1334..1435, 1334..1435		

Seq. No.	27537	Seq. ID	OJ000150_17.0124.C19
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Gene No.	56907	Strand	-
Start	1	End	635
Name	OJ000150_17.0124.C19.ol.np	Method	AAT/NAP
Start	1	End	635
GI	5922623	Score	267
Exons	1..170, 555..635		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	27538	Seq. ID	OJ000150_17.0124.C20
Gene No.	56908	Strand	+
Start	1	End	865
Name	OJ000150_17.0124.C20.ol.np	Method	AAT/NAP
Start	1	End	865
GI	6498436	Score	1297
Exons	1..865		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	27539	Seq. ID	OJ000150_17.0124.C21
Gene No.	56909	Strand	-
Start	292	End	487
Name	OJ000150_17.0124.C21.ol.gs	Method	GENSCAN
Start	292	End	487
GI	none	Score	.42
Exons	292..421, 463..487		

Seq. No.	27540	Seq. ID	OJ000150_17.0124.C23
Gene No.	56910	Strand	-
Start	86	End	430
Name	OJ000150_17.0124.C23.ol.tm	Method	TBLASTX:Maize
Start	71	End	240
GI	none	Score	169
Exons	71..232, 72..239, 106..240		

Seq. No.	27540	Seq. ID	OJ000150_17.0124.C23
Gene No.	56910	Strand	-
Start	86	End	430
Name	OJ000150_17.0124.C23.ol.gs	Method	GENSCAN
Start	86	End	428
GI	none	Score	.78
Exons	86..175, 347..428		

Seq. No.	27540	Seq. ID	OJ000150_17.0124.C23
Gene No.	56910	Strand	-
Start	86	End	430
Name	OJ000150_17.0124.C23.ol.gp	Method	AAT/GAP
Start	90	End	430
GI	none	Score	440
Exons	90..247, 347..430		

Seq. No.	27541	Seq. ID	OJ000150_17.0124.C25
Gene No.	56911	Strand	-
Start	188	End	273
Name	OJ000150_17.0124.C25.ol.gp	Method	AAT/GAP
Start	188	End	273
GI	43584_1.R1084	Score	122

Exons 188..273  
 GI Descrip. '4971998/emb|CAB43864.1| 1.0e-53 (Y14685) polynucleotide phosphorylase [Arabidopsis thaliana] >gi\_4972000\_emb\_CAB43865.1\_ (Y14686) polynucleotide phosphorylase [Arabidopsis thaliana]'

Seq. No.	27541	Seq. ID	OJ000150_17.0124.C25
Gene No.	56912	Strand	-
Start	192	End	305
Name	OJ000150_17.0124.C25.o1.gs	Method	GENSCAN
Start	192	End	305
GI	none	Score	.61
Exons	192..305		

Seq. No.	27542	Seq. ID	OJ000150_17.0124.C26
Gene No.	56913	Strand	+
Start	1	End	711
Name	OJ000150_17.0124.C26.o1.np	Method	AAT/NAP
Start	1	End	711
GI	4580455	Score	161
Exons	1..67, 133..201, 319..389, 565..711		
GI Descrip.	(AC006081) unknown protein [Arabidopsis thaliana]		

Seq. No.	27542	Seq. ID	OJ000150_17.0124.C26
Gene No.	56913	Strand	+
Start	1	End	711
Name	OJ000150_17.0124.C26.o1.ts	Method	TBLASTX:Soybean
Start	1	End	390
GI	none	Score	86
Exons	1..69, 2..73, 130..216, 132..203, 313..390, 327..389		

Seq. No.	27542	Seq. ID	OJ000150_17.0124.C26
Gene No.	56913	Strand	+
Start	1	End	711
Name	OJ000150_17.0124.C26.o1.tm	Method	TBLASTX:Maize
Start	1	End	396
GI	none	Score	91
Exons	1..63, 2..73, 130..216, 130..198, 135..203, 301..396, 313..387, 321..395		

Seq. No.	27542	Seq. ID	OJ000150_17.0124.C26
Gene No.	56913	Strand	+
Start	1	End	711
Name	OJ000150_17.0124.C26.o1.gs	Method	GENSCAN
Start	2	End	387
GI	none	Score	.83
Exons	2..67, 133..201, 319..387		

Seq. No.	27543	Seq. ID	OJ000150_17.0124.C27
Gene No.	56914	Strand	+
Start	83	End	112
Name	OJ000150_17.0124.C27.o1.gs	Method	GENSCAN
Start	83	End	112
GI	none	Score	.44
Exons	83..112		

Seq. No.	27544	Seq. ID	OJ000150_17.0124.C30
Gene No.	56915	Strand	+

Start	86	End	160
Name	OJ000150_17.0124.C30.o1.gs	Method	GENSCAN
Start	86	End	160
GI	none	Score	.74
Exons	86..160		
Seq. No.	27545	Seq. ID	OJ000150_17.0124.C31
Gene No.	56916	Strand	-
Start	456	End	708
Name	OJ000150_17.0124.C31.o1.gs	Method	GENSCAN
Start	456	End	708
GI	none	Score	.97
Exons	456..574, 630..708		
Seq. No.	27546	Seq. ID	OJ000150_17.0124.C34
Gene No.	56917	Strand	-
Start	472	End	576
Name	OJ000150_17.0124.C34.o1.gs	Method	GENSCAN
Start	472	End	576
GI	none	Score	.69
Exons	472..576		
Seq. No.	27547	Seq. ID	OJ000150_17.0124.C37
Gene No.	56918	Strand	+
Start	1	End	680
Name	OJ000150_17.0124.C37.o1.np	Method	AAT/NAP
Start	1	End	680
GI	6815052	Score	94
Exons	1..46, 213..325, 617..680		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		
Seq. No.	27547	Seq. ID	OJ000150_17.0124.C37
Gene No.	56918	Strand	+
Start	1	End	680
Name	OJ000150_17.0124.C37.o1.gs	Method	GENSCAN
Start	443	End	529
GI	none	Score	.82
Exons	443..529		
Seq. No.	27547	Seq. ID	OJ000150_17.0124.C37
Gene No.	56918	Strand	+
Start	1	End	680
Name	OJ000150_17.0124.C37.o2.np	Method	AAT/NAP
Start	443	End	680
GI	6498436	Score	98
Exons	443..553, 632..680		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	27548	Seq. ID	OJ000150_17.0124.C38
Gene No.	56919	Strand	-
Start	89	End	552
Name	OJ000150_17.0124.C38.o1.gs	Method	GENSCAN
Start	89	End	552
GI	none	Score	.59
Exons	89..552		
Seq. No.	27549	Seq. ID	OJ000150_17.0124.C39



Gene No.	56920	Strand	+
Start	1388	End	2127
Name	OJ000150_17.0124.C39.o1.gs	Method	GENSCAN
Start	1388	End	2127
GI	none	Score	.87
Exons	1388..1515, 1580..2127		

Seq. No.	27549	Seq. ID	OJ000150_17.0124.C39
Gene No.	56921	Strand	+
Start	16678	End	18448
Name	OJ000150_17.0124.C39.o5.gs	Method	GENSCAN
Start	16678	End	18448
GI	none	Score	.61
Exons	16678..16729, 17613..17742, 17884..18448		

Seq. No.	27549	Seq. ID	OJ000150_17.0124.C39
Gene No.	56921	Strand	+
Start	16678	End	18448
Name	OJ000150_17.0124.C39.o2.np	Method	AAT/NAP
Start	16882	End	17977
GI	1732513	Score	475
Exons	16882..17031, 17613..17742, 17851..17977		
GI Descrip.	(U62743) snapdragon myb protein 305 homolog [Arabidopsis thaliana]		

Seq. No.	27549	Seq. ID	OJ000150_17.0124.C39
Gene No.	56922	Strand	-
Start	2557	End	4316
Name	OJ000150_17.0124.C39.o2.gs	Method	GENSCAN
Start	2557	End	4316
GI	none	Score	.74
Exons	2557..3054, 3162..4069, 4136..4316		

Seq. No.	27549	Seq. ID	OJ000150_17.0124.C39
Gene No.	56922	Strand	-
Start	2557	End	4316
Name	OJ000150_17.0124.C39.o1.np	Method	AAT/NAP
Start	2560	End	4028
GI	6682236	Score	969
Exons	2560..3054, 3162..3714, 3751..4028		
GI Descrip.	(AC016661) unknown protein [Arabidopsis thaliana]		

Seq. No.	27549	Seq. ID	OJ000150_17.0124.C39
Gene No.	56923	Strand	-
Start	5610	End	6593
Name	OJ000150_17.0124.C39.o3.gs	Method	GENSCAN
Start	5610	End	6593
GI	none	Score	.84
Exons	5610..6593		

Seq. No.	27549	Seq. ID	OJ000150_17.0124.C39
Gene No.	56924	Strand	-
Start	8225	End	13564
Name	OJ000150_17.0124.C39.o1.tm	Method	TBLASTX:Maize
Start	2587	End	3500
GI	none	Score	246
Exons	2587..3054, 2618..3055, 3165..3500, 3166..3417, 3249..3467		

Seq. No. 27549  
 Gene No. 56924  
 Start 8225  
 Name OJ000150\_17.0124.C39.o2.tw  
 Start 2587  
 GI none  
 Exons 2587..2841, 2624..2839

Seq. ID OJ000150\_17.0124.C39  
 Strand -  
 End 13564  
 Method TBLASTX:Wheat  
 End 2841  
 Score 81

Seq. No. 27549  
 Gene No. 56924  
 Start 8225  
 Name OJ000150\_17.0124.C39.o1.ts  
 Start 2644  
 GI none  
 Exons 2644..3057, 2765..3055, 3162..3494, 3166..3492, 3511..3606, 3570..3605, 3855..3959

Seq. ID OJ000150\_17.0124.C39  
 Strand -  
 End 13564  
 Method TBLASTX:Soybean  
 End 3959  
 Score 216

Seq. No. 27549  
 Gene No. 56924  
 Start 8225  
 Name OJ000150\_17.0124.C39.o1.tc  
 Start 2683  
 GI none  
 Exons 2683..3057, 2762..3055

Seq. ID OJ000150\_17.0124.C39  
 Strand -  
 End 13564  
 Method TBLASTX:Cress  
 End 3057  
 Score 239

Seq. No. 27549  
 Gene No. 56924  
 Start 8225  
 Name OJ000150\_17.0124.C39.o4.gs  
 Start 8225  
 GI none  
 Exons 8225..8445, 8633..8761, 9357..9422, 12532..12855, 13423..13564

Seq. ID OJ000150\_17.0124.C39  
 Strand -  
 End 13564  
 Method GENSCAN  
 End 13564  
 Score .6

Seq. No. 27549  
 Gene No. 56925  
 Start 16920  
 Name OJ000150\_17.0124.C39.o1.tw  
 Start 16920  
 GI none  
 Exons 16920..17033, 17608..17745, 17609..17743, 17629..17745, 17848..17925, 17849..17929

Seq. ID OJ000150\_17.0124.C39  
 Strand -  
 End 17968  
 Method TBLASTX:Wheat  
 End 17929  
 Score 102

Seq. No. 27549  
 Gene No. 56925  
 Start 16920  
 Name OJ000150\_17.0124.C39.o2.tc  
 Start 16920  
 GI none  
 Exons 16920..17033, 17600..17740, 17608..17745, 17609..17743, 17831..17968, 17848..17919

Seq. ID OJ000150\_17.0124.C39  
 Strand -  
 End 17968  
 Method TBLASTX:Cress  
 End 17968  
 Score 102

Seq. No. 27549  
 Gene No. 56925  
 Start 16920  
 Name OJ000150\_17.0124.C39.o2.tm  
 Start 16920

Seq. ID OJ000150\_17.0124.C39  
 Strand -  
 End 17968  
 Method TBLASTX:Maize  
 End 17953

GI	none	Score	102
Exons	16920..17033, 17608..17745, 17609..17743, 17831..17953, 17848..17925		

Seq. No.	27549	Seq. ID	OJ000150_17.0124.C39
Gene No.	56925	Strand	
Start	16920	End	17968
Name	OJ000150_17.0124.C39.o2.ts	Method	TBLASTX:Soybean
Start	16929	End	17929
GI	none	Score	100
Exons	16929..17033, 17608..17745, 17609..17743, 17836..17928, 17849..17929		

Seq. No.	27550	Seq. ID	OJ000150_17.0124.C40
Gene No.	56926	Strand	+
Start	1134	End	4751
Name	OJ000150_17.0124.C40.o1.gs	Method	GENSCAN
Start	1134	End	4658
GI	none	Score	.71
Exons	1134..1300, 1407..1577, 4438..4591, 4616..4658		

Seq. No.	27550	Seq. ID	OJ000150_17.0124.C40
Gene No.	56926	Strand	+
Start	1134	End	4751
Name	OJ000150_17.0124.C40.o1.gp	Method	AAT/GAP
Start	4216	End	4658
GI	29537_1.R1084	Score	363
Exons	4216..4322, 4438..4506, 4616..4658		
GI Descrip.	'4586031/gb AAD25649.1 AC007109_7 4.0e-24 (AC007109) unknown protein [Arabidopsis thaliana]'		

Seq. No.	27550	Seq. ID	OJ000150_17.0124.C40
Gene No.	56926	Strand	+
Start	1134	End	4751
Name	OJ000150_17.0124.C40.o1.np	Method	AAT/NAP
Start	4453	End	4751
GI	4586031	Score	104
Exons	4453..4506, 4616..4751		
GI Descrip.	(AC007109) unknown protein [Arabidopsis thaliana]		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56927	Strand	+
Start	362	End	542
Name	OJ000150_17.0124.C41.o1.np	Method	AAT/NAP
Start	362	End	542
GI	4586031	Score	106
Exons	362..542		
GI Descrip.	(AC007109) unknown protein [Arabidopsis thaliana]		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56928	Strand	+
Start	445	End	700
Name	OJ000150_17.0124.C41.o1.gp	Method	AAT/GAP
Start	445	End	700
GI	29537_1.R1084	Score	470
Exons	445..700		
GI Descrip.	'4586031/gb AAD25649.1 AC007109_7 4.0e-24 (AC007109) unknown		

protein [Arabidopsis thaliana]'

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56929	Strand	+
Start	7880	End	10207
Name	OJ000150_17.0124.C41.o2.gs	Method	GENSCAN
Start	7880	End	10207
GI	none	Score	.73
Exons	7880..8001, 9814..10207		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56930	Strand	+
Start	14509	End	15869
Name	OJ000150_17.0124.C41.o4.gs	Method	GENSCAN
Start	14509	End	15869
GI	none	Score	.88
Exons	14509..14532, 15182..15388, 15501..15869		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56931	Strand	-
Start	999	End	7881
Name	OJ000150_17.0124.C41.o1.gs	Method	GENSCAN
Start	999	End	6629
GI	none	Score	.77
Exons	999..1133, 1950..2009, 2186..2437, 2753..2937, 3109..3190, 3396..3563, 3688..4067, 4199..4309, 4392..4464, 5086..5227, 5431..5507, 6534..6629		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56931	Strand	-
Start	999	End	7881
Name	OJ000150_17.0124.C41.o2.gp	Method	AAT/GAP
Start	1568	End	2037
GI	none	Score	912
Exons	1568..2037		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56931	Strand	-
Start	999	End	7881
Name	OJ000150_17.0124.C41.o3.gp	Method	AAT/GAP
Start	2129	End	2710
GI	none	Score	877
Exons	2129..2710		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56931	Strand	-
Start	999	End	7881
Name	OJ000150_17.0124.C41.o2.np	Method	AAT/NAP
Start	2234	End	3568
GI	3831441	Score	87
Exons	2234..2469, 2836..2959, 3396..3568		
GI Descrip.	(AC005819) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56931	Strand	-
Start	999	End	7881
Name	OJ000150_17.0124.C41.o4.gp	Method	AAT/GAP

Start	2852	End	3537
GI	none	Score	699
Exons	2852..3009, 3109..3190, 3396..3537		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56931	Strand	-
Start	999	End	7881
Name	OJ000150_17.0124.C41.o4.np	Method	AAT/NAP
Start	6254	End	7881
GI	1707980	Score	319
Exons	6254..6345, 6534..6632, 7168..7256, 7826..7881		
GI Descrip.	GLUTAREDOXIN gi 1084458 pir  S41736 glutaredoxin thioltransferase - Rice gi 485953 emb CAA54397  (X77150) glutaredoxin [Oryza sativa]		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56932	Strand	-
Start	7826	End	7913
Name	OJ000150_17.0124.C41.o5.gp	Method	AAT/GAP
Start	7826	End	7913
GI	3106867	Score	175
Exons	7826..7913		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o2.tm	Method	TBLASTX:Maize
Start	2011	End	2530
GI	none	Score	36
Exons	2011..2043, 2015..2044, 2018..2032, 2069..2122, 2080..2118, 2099..2155, 2100..2174, 2157..2426, 2158..2427, 2159..2425, 2243..2437, 2418..2528, 2423..2530, 2424..2528		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o4.tm	Method	TBLASTX:Maize
Start	2536	End	2716
GI	none	Score	157
Exons	2536..2712, 2540..2716, 2544..2714		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o3.tm	Method	TBLASTX:Maize
Start	2719	End	3001
GI	none	Score	265
Exons	2719..2994, 2720..3001, 2726..3001		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o1.tm	Method	TBLASTX:Maize
Start	3381	End	4340
GI	none	Score	109
Exons	3381..3509, 3396..3509, 3510..3575, 3510..3563, 3511..3564, 3518..3574, 3685..3822, 3686..3820, 3718..3822, 3902..4069,		

3907..4068, 4200..4340, 4203..4301

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o1.ts	Method	TBLASTX:Soybean
Start	3390	End	3958
GI	none	Score	126
Exons	3390..3563, 3396..3590, 3406..3564, 3685..3822, 3686..3820, 3902..3958, 3907..3957		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o1.tw	Method	TBLASTX:Wheat
Start	3685	End	3976
GI	none	Score	133
Exons	3685..3822, 3695..3820, 3718..3822, 3902..3976, 3910..3975		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o6.gp	Method	AAT/GAP
Start	10893	End	13156
GI	none	Score	780
Exons	10893..11121, 11555..11619, 12864..13037, 13121..13156		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o5.tm	Method	TBLASTX:Maize
Start	11013	End	13029
GI	none	Score	118
Exons	11013..11123, 11014..11127, 11552..11620, 11553..11636, 12861..12974, 12861..13010, 12862..13017, 12862..13029		

Seq. No.	27551	Seq. ID	OJ000150_17.0124.C41
Gene No.	56933	Strand	-
Start	11032	End	13352
Name	OJ000150_17.0124.C41.o3.gs	Method	GENSCAN
Start	11032	End	13352
GI	none	Score	.47
Exons	11032..11121, 11555..11619, 12864..13037, 13046..13352		

Seq. No.	27552	Seq. ID	OJ000150_17.0124.C42
Gene No.	56934	Strand	+
Start	290	End	4681
Name	OJ000150_17.0124.C42.o1.gs	Method	GENSCAN
Start	290	End	4681
GI	none	Score	.55
Exons	290..531, 798..895, 2219..2298, 4541..4681		

Seq. No.	27552	Seq. ID	OJ000150_17.0124.C42
Gene No.	56935	Strand	-
Start	2597	End	2690
Name	OJ000150_17.0124.C42.o1.gp	Method	AAT/GAP
Start	2597	End	2690

GI LIB3477-003-P1-K1-E9 Score 134  
 Exons 2597..2690  
 GI Descrip. '2498586/sp|Q40638|MPO1\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
 S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
 sativa]'

Seq. No. 27552 Seq. ID OJ000150\_17.0124.C42  
 Gene No. 56936 Strand -  
 Start 3637 End 4226  
 Name OJ000150\_17.0124.C42.o2.gp Method AAT/GAP  
 Start 3637 End 4226  
 GI none Score 908  
 Exons 3637..4090, 4170..4226

Seq. No. 27553 Seq. ID OJ000150\_17.0124.C43  
 Gene No. 56937 Strand +  
 Start 1016 End 1149  
 Name OJ000150\_17.0124.C43.o1.gs Method GENSCAN  
 Start 1016 End 1149  
 GI none Score .43  
 Exons 1016..1149

Seq. No. 27554 Seq. ID OJ000150\_17.0124.C44  
 Gene No. 56938 Strand +  
 Start 1 End 1706  
 Name OJ000150\_17.0124.C44.o1.np Method AAT/NAP  
 Start 1 End 1706  
 GI 6498436 Score 424  
 Exons 1..49, 1378..1706  
 GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. No. 27554 Seq. ID OJ000150\_17.0124.C44  
 Gene No. 56938 Strand +  
 Start 1 End 1706  
 Name OJ000150\_17.0124.C44.o1.gs Method GENSCAN  
 Start 135 End 220  
 GI none Score .55  
 Exons 135..220

Seq. No. 27554 Seq. ID OJ000150\_17.0124.C44  
 Gene No. 56939 Strand -  
 Start 2181 End 2389  
 Name OJ000150\_17.0124.C44.o2.np Method AAT/NAP  
 Start 971 End 2389  
 GI 5922623 Score 69  
 Exons 971..1069, 2190..2260, 2329..2389  
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]  
 gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein  
 [Oryza sativa]

Seq. No. 27554 Seq. ID OJ000150\_17.0124.C44  
 Gene No. 56939 Strand -  
 Start 2181 End 2389  
 Name OJ000150\_17.0124.C44.o2.gs Method GENSCAN  
 Start 2181 End 2333  
 GI none Score .64  
 Exons 2181..2260, 2279..2333

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56940	Strand	+
Start	1	End	4003
Name	OJ000150_17.0124.C45.o1.np	Method	AAT/NAP
Start	1	End	4003
GI	5042454	Score	3764
Exons	1..1628, 2267..2877, 3559..3720, 3950..4003		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56941	Strand	+
Start	5775	End	21041
Name	OJ000150_17.0124.C45.o2.np	Method	AAT/NAP
Start	5775	End	7932
GI	6498436	Score	1842
Exons	5775..5861, 6495..6612, 6661..7548, 7814..7932		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56941	Strand	+
Start	5775	End	21041
Name	OJ000150_17.0124.C45.o2.gs	Method	GENSCAN
Start	7245	End	20914
GI	none	Score	.71
Exons	7245..7472, 8082..8277, 8601..8860, 9331..9486, 9579..9749, 10045..10170, 10239..10400, 10604..10723, 11376..11513, 11603..11765, 12226..12354, 12678..12803, 13331..13461, 14823..14936, 15123..15266, 15909..16583, 17435..17580, 17809..17891, 17979..18085, 18181..18285, 18387..18492, 18592..18797, 18877..18968, 19089..19207, 19712..19835, 19924..20050, 20179..20247, 20265..20443, 20539..20616, 20893..20914		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56941	Strand	+
Start	5775	End	21041
Name	OJ000150_17.0124.C45.o3.np	Method	AAT/NAP
Start	7747	End	17009
GI	4971998	Score	2233
Exons	7747..7852, 8646..8860, 9331..9486, 9579..9749, 10045..10170, 10239..10400, 10604..10723, 11376..11513, 11603..11765, 12678..12803, 13331..13461, 13578..13797, 13892..13963, 14857..14936, 15123..15266, 15909..16580, 16899..17009		
GI Descrip.	(Y14685) polynucleotide phosphorylase [Arabidopsis thaliana] gi 4972000 emb CAB43865.1  (Y14686) polynucleotide phosphorylase [Arabidopsis thaliana]		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56941	Strand	+
Start	5775	End	21041
Name	OJ000150_17.0124.C45.o1.gp	Method	AAT/GAP
Start	13394	End	15242
GI	43584_1.R1084	Score	794
Exons	13394..13426, 13621..13797, 13892..13963, 14857..14936, 15123..15242		
GI Descrip.	'4971998/emb CAB43864.1  1.0e-53 (Y14685) polynucleotide		



phosphorylase [Arabidopsis thaliana] >gi\_4972000\_emb\_CAB43865.1\_ (Y14686) polynucleotide phosphorylase [Arabidopsis thaliana]'

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56941	Strand	+
Start	5775	End	21041
Name	OJ000150_17.0124.C45.o2.gp	Method	AAT/GAP
Start	15900	End	16294
GI	286838	Score	754
Exons	15900..16294		
Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56941	Strand	+
Start	5775	End	21041
Name	OJ000150_17.0124.C45.o4.np	Method	AAT/NAP
Start	17714	End	21041
GI	3421413	Score	800
Exons	17714..17836, 17951..18085, 18193..18285, 18370..18534, 18628..18797, 18882..18968, 19089..19207, 19712..19835, 19924..20050, 20179..20247, 20352..20443, 20539..20616, 20705..20807, 20931..21041		
GI Descrip.	(AF081922) protein phosphatase 2A 55 kDa B regulatory subunit [Oryza sativa] gi 3421415 (AF081923) protein phosphatase 2A 55 kDa B regulatory subunit [Oryza sativa]		
Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o1.tw	Method	TBLASTX:Wheat
Start	594	End	986
GI	none	Score	58
Exons	594..641, 648..746, 665..745, 713..952, 729..986		
Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o5.tm	Method	TBLASTX:Maize
Start	599	End	884
GI	none	Score	193
Exons	599..883, 636..884		
Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o2.tw	Method	TBLASTX:Wheat
Start	5868	End	6362
GI	none	Score	97
Exons	5868..6050, 6066..6362, 6143..6352		
Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o2.ts	Method	TBLASTX:Soybean
Start	5880	End	6260
GI	none	Score	114
Exons	5880..6071, 6069..6260		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o2.tc	Method	TBLASTX:Cress
Start	8666	End	8863
GI	none	Score	213
Exons	8666..8836, 8671..8847, 8840..8863		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o2.tm	Method	TBLASTX:Maize
Start	13881	End	15992
GI	none	Score	82
Exons	13881..13946, 13882..13947, 13891..13959, 13892..13963, 13939..13971, 13942..13965, 14852..14938, 14854..14937, 14855..14938, 14856..14939, 15120..15269, 15122..15259, 15878..15991, 15908..15991, 15909..15992, 15909..15992		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o3.tm	Method	TBLASTX:Maize
Start	15993	End	16350
GI	none	Score	54
Exons	15993..16061, 15995..16048, 16074..16256, 16074..16253, 16251..16313, 16267..16350		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o4.tm	Method	TBLASTX:Maize
Start	16446	End	17089
GI	none	Score	196
Exons	16446..16580, 16455..16580, 16472..16588, 16893..16997, 16946..16996, 17063..17089		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o1.tc	Method	TBLASTX:Cress
Start	17980	End	21032
GI	none	Score	115
Exons	17980..18072, 17981..18073, 18262..18285, 18367..18444, 18439..18495, 18903..18965, 18904..18966, 19086..19202, 19087..19284, 19704..19820, 19708..19842, 19951..20040, 19952..20071, 20173..20274, 20349..20441, 20351..20452, 20534..20617, 20942..21022, 20943..21032		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o1.ts	Method	TBLASTX:Soybean
Start	17980	End	21047
GI	none	Score	123
Exons	17980..18072, 17981..18085, 18196..18285, 18367..18444, 18439..18495, 18903..18965, 18904..18966, 19086..19247,		

19087..19284, 19704..19844, 19708..19842, 19955..20071,  
19960..20061, 20173..20274, 20349..20441, 20351..20452,  
20534..20617, 20536..20610, 20937..21047, 20942..21022

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o1.tm	Method	TBLASTX:Maize
Start	17980	End	21044
GI	none	Score	113
Exons	17980..18072, 17981..18073, 18199..18285, 18367..18444, 18439..18495, 18898..18966, 19086..19202, 19087..19203, 19704..19844, 19708..19842, 19954..20040, 19955..20071, 20158..20247, 20173..20274, 20342..20443, 20349..20441, 20534..20617, 20536..20610, 20687..20716, 20934..21044, 20948..21043		

Seq. No.	27555	Seq. ID	OJ000150_17.0124.C45
Gene No.	56942	Strand	-
Start	21057	End	24800
Name	OJ000150_17.0124.C45.o3.gs	Method	GENSCAN
Start	21057	End	24800
GI	none	Score	.66
Exons	21057..21088, 21504..22043, 22127..22170, 22472..22590, 23487..23735, 24103..24299, 24737..24800		

Seq. No.	27556	Seq. ID	OJ000150_17.0124.C46
Gene No.	56943	Strand	-
Start	1	End	5117
Name	OJ000150_17.0124.C46.o1.np	Method	AAT/NAP
Start	1	End	5117
GI	6014422	Score	365
Exons	1..66, 692..823, 930..979, 1088..1159, 2014..2065, 2149..2305, 2427..2701, 3460..3779, 3881..4042, 4161..4338, 4875..5117		
GI Descrip.	(AL121764) putative U5 snRNP-specific 200kd protein [Schizosaccharomyces pombe]		

Seq. No.	27556	Seq. ID	OJ000150_17.0124.C46
Gene No.	56943	Strand	-
Start	1	End	5117
Name	OJ000150_17.0124.C46.o1.gs	Method	GENSCAN
Start	405	End	4672
GI	none	Score	.56
Exons	405..488, 560..623, 2014..2065, 2149..2305, 2427..2584, 2728..2749, 3237..3328, 3397..3466, 3542..3779, 3881..4042, 4155..4338, 4584..4672		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56944	Strand	+
Start	11687	End	28119
Name	OJ000150_17.0124.C47.o4.gs	Method	GENSCAN
Start	11687	End	28119
GI	none	Score	.65
Exons	11687..11754, 11959..12007, 12532..12639, 12962..13069, 15249..15335, 15577..15732, 17590..17745, 18687..18866, 18915..19007, 19840..19927, 20093..20254, 20784..20881, 21225..21293, 21376..21461, 21548..21665, 21781..21879,		

23043..23190, 23323..25106, 25220..25318, 25939..26043;  
 26125..26199, 26265..26333, 26451..26519, 26993..27094,  
 27961..28119

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56944	Strand	+
Start	11687	End	28119
Name	OJ000150_17.0124.C47.o3.np	Method	AAT/NAP
Start	15398	End	18040
GI	4512714	Score	585
Exons	15398..15732, 17590..17749, 17937..18040		
GI Descrip.	(AC006569) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56944	Strand	+
Start	11687	End	28119
Name	OJ000150_17.0124.C47.o4.np	Method	AAT/NAP
Start	25041	End	28116
GI	4580455	Score	671
Exons	25041..25106, 25220..25318, 25939..26043, 26125..26199, 26265..26333, 26451..26519, 26993..27094, 27961..28116		
GI Descrip.	(AC006081) unknown protein [Arabidopsis thaliana]		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56945	Strand	+
Start	32638	End	33472
Name	OJ000150_17.0124.C47.o6.gs	Method	GENSCAN
Start	32638	End	33472
GI	none	Score	.55
Exons	32638..33472		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56946	Strand	-
Start	1	End	768
Name	OJ000150_17.0124.C47.o1.np	Method	AAT/NAP
Start	1	End	768
GI	4218120	Score	526
Exons	1..189, 305..432, 522..768		
GI Descrip.	(AL035353) Proline-rich APG-like protein [Arabidopsis thaliana]		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56946	Strand	-
Start	1	End	768
Name	OJ000150_17.0124.C47.o1.gs	Method	GENSCAN
Start	79	End	759
GI	none	Score	.92
Exons	79..189, 305..432, 522..759		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56947	Strand	-
Start	9987	End	14251
Name	OJ000150_17.0124.C47.o2.np	Method	AAT/NAP
Start	9987	End	14251
GI	6069646	Score	743
Exons	9987..10556, 14210..14251		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to		

Arabidopsis thaliana chromosome II BAC F9013 genomic sequence,  
putative non-LTR retroelement reverse transcriptase. (AC006248)  
[Oryza sativa]

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o1.tm	Method	TBLASTX:Maize
Start	47	End	768
GI	none	Score	144
Exons	47..187, 49..189, 49..189, 50..190, 132..194, 302..430, 303..431, 307..432, 518..676, 520..675, 664..768		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o1.tc	Method	TBLASTX:Cress
Start	49	End	676
GI	none	Score	96
Exons	49..189, 50..190, 302..430, 303..431, 518..676, 520..675		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o1.ts	Method	TBLASTX:Soybean
Start	49	End	675
GI	none	Score	135
Exons	49..189, 50..190, 302..430, 303..422, 520..675, 521..673		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o6.tm	Method	TBLASTX:Maize
Start	9996	End	10545
GI	none	Score	68
Exons	9996..10211, 10225..10479, 10471..10545		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o3.tm	Method	TBLASTX:Maize
Start	15383	End	15705
GI	none	Score	46
Exons	15383..15484, 15428..15457, 15508..15705, 15508..15702, 15534..15704		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o5.ts	Method	TBLASTX:Soybean
Start	15651	End	18758
GI	none	Score	111
Exons	15651..15740, 15652..15735, 15661..15744, 17587..17754, 17589..17729, 17850..17921, 18672..18758, 18686..18748		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-

Start	29459	End	31773
Name	OJ000150_17.0124.C47.o4.tm	Method	TBLASTX:Maize
Start	17587	End	17912
GI	none	Score	249
Exons	17587..17754, 17587..17745, 17589..17759, 17832..17912, 17838..17909		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o2.tc	Method	TBLASTX:Cress
Start	21414	End	23381
GI	none	Score	59
Exons	21414..21482, 21415..21462, 21545..21676, 21546..21677, 21756..21866, 21778..21882, 21778..21879, 22805..22915, 22836..22934, 22923..23141, 22953..23126, 23139..23186, 23150..23185, 23297..23377, 23322..23381		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o3.ts	Method	TBLASTX:Soybean
Start	23601	End	23980
GI	none	Score	94
Exons	23601..23753, 23603..23740, 23655..23777, 23742..23978, 23744..23980, 23875..23979		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o3.tc	Method	TBLASTX:Cress
Start	23634	End	24005
GI	none	Score	79
Exons	23634..23753, 23657..23740, 23741..24004, 23742..24005		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o6.ts	Method	TBLASTX:Soybean
Start	24017	End	24170
GI	none	Score	222
Exons	24017..24169, 24018..24170		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o2.ts	Method	TBLASTX:Soybean
Start	24210	End	24460
GI	none	Score	290
Exons	24210..24458, 24213..24449, 24218..24460		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o5.tm	Method	TBLASTX:Maize
Start	24891	End	25312
GI	none	Score	205

Exons 24891..25109, 24893..25096, 25014..25112, 25217..25300,  
25218..25301, 25220..25312

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o5.tc	Method	TBLASTX:Cress
Start	25244	End	26333
GI	none	Score	74
Exons	25244..25327, 25937..26032, 25938..26042, 25939..26043, 26119..26205, 26124..26201, 26304..26333		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o2.tm	Method	TBLASTX:Maize
Start	25937	End	28119
GI	none	Score	74
Exons	25937..26038, 25938..26039, 25938..26039, 25939..26043, 26020..26046, 26116..26205, 26120..26194, 26121..26195, 26262..26348, 26262..26330, 26267..26335, 26433..26528, 26445..26519, 26453..26527, 26992..27114, 26993..27100, 27954..28115, 27958..28119		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o4.ts	Method	TBLASTX:Soybean
Start	25993	End	28010
GI	none	Score	55
Exons	25993..26043, 26119..26205, 26121..26201, 26262..26348, 26264..26335, 26445..26522, 26984..27100, 26992..27114, 27958..28008, 27960..28010, 27960..28010		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o4.tc	Method	TBLASTX:Cress
Start	26984	End	28113
GI	none	Score	131
Exons	26984..27100, 26992..27126, 27958..28113, 27960..28109		

Seq. No.	27557	Seq. ID	OJ000150_17.0124.C47
Gene No.	56948	Strand	-
Start	29459	End	31773
Name	OJ000150_17.0124.C47.o5.gs	Method	GENSCAN
Start	29459	End	31773
GI	none	Score	.78
Exons	29459..30022, 31711..31773		

Seq. No.	27558	Seq. ID	OJ000150_17.0124.C55
Gene No.	56949	Strand	+
Start	40	End	364
Name	OJ000150_17.0124.C55.o1.gs	Method	GENSCAN
Start	40	End	364
GI	none	Score	.87
Exons	40..94, 183..364		

Seq. No.	27559	Seq. ID	OJ000150_17.0124.C57
Gene No.	56950	Strand	-
Start	294	End	463
Name	OJ000150_17.0124.C57.o1.gs	Method	GENSCAN
Start	294	End	452
GI	none	Score	.81
Exons	294..452		

Seq. No.	27559	Seq. ID	OJ000150_17.0124.C57
Gene No.	56950	Strand	-
Start	294	End	463
Name	OJ000150_17.0124.C57.o1.tm	Method	TBLASTX:Maize
Start	294	End	463
GI	none	Score	168
Exons	294..455, 298..453, 299..463		

Seq. No.	27559	Seq. ID	OJ000150_17.0124.C57
Gene No.	56950	Strand	-
Start	294	End	463
Name	OJ000150_17.0124.C57.o1.np	Method	AAT/NAP
Start	297	End	457
GI	4580455	Score	162
Exons	297..457		
GI Descrip.	(AC006081) unknown protein [Arabidopsis thaliana]		

Seq. No.	27559	Seq. ID	OJ000150_17.0124.C57
Gene No.	56950	Strand	-
Start	294	End	463
Name	OJ000150_17.0124.C57.o1.tc	Method	TBLASTX:Cress
Start	300	End	455
GI	none	Score	142
Exons	300..455, 304..453		

Seq. No.	27560	Seq. ID	OJ000150_17.0124.C59
Gene No.	56951	Strand	-
Start	83	End	232
Name	OJ000150_17.0124.C59.o1.gs	Method	GENSCAN
Start	83	End	232
GI	none	Score	1
Exons	83..232		

Seq. No.	27561	Seq. ID	OJ000150_17.0124.C63
Gene No.	56952	Strand	+
Start	7128	End	8383
Name	OJ000150_17.0124.C63.o3.gs	Method	GENSCAN
Start	7128	End	8200
GI	none	Score	.91
Exons	7128..7170, 7657..7733, 7988..8200		

Seq. No.	27561	Seq. ID	OJ000150_17.0124.C63
Gene No.	56952	Strand	+
Start	7128	End	8383
Name	OJ000150_17.0124.C63.o1.np	Method	AAT/NAP
Start	7985	End	8383
GI	4218122	Score	82
Exons	7985..8188, 8227..8383		



GI Descrip. (AL035353) putative protein [Arabidopsis thaliana]

Seq. No.	27561	Seq. ID	OJ000150_17.0124.C63
Gene No.	56953	Strand	-
Start	2353	End	5422
Name	OJ000150_17.0124.C63.o2.gs	Method	GENSCAN
Start	2353	End	5422
GI	none	Score	.44
Exons	2353..2542, 2589..2884, 3291..3352, 4992..5148, 5303..5422		

Seq. No.	27562	Seq. ID	OJ000150_17.0124.C64
Gene No.	56954	Strand	+
Start	461	End	2080
Name	OJ000150_17.0124.C64.o1.gs	Method	GENSCAN
Start	461	End	2080
GI	none	Score	.91
Exons	461..602, 843..970, 1149..1341, 1425..2080		

Seq. No.	27562	Seq. ID	OJ000150_17.0124.C64
Gene No.	56954	Strand	+
Start	461	End	2080
Name	OJ000150_17.0124.C64.o1.gp	Method	AAT/GAP
Start	1263	End	2022
GI	4107133	Score	1404
Exons	1263..2022		

Seq. No.	27562	Seq. ID	OJ000150_17.0124.C64
Gene No.	56955	Strand	+
Start	3827	End	4852
Name	OJ000150_17.0124.C64.o2.tm	Method	TBLASTX:Maize
Start	311	End	770
GI	none	Score	133
Exons	311..427, 312..446, 316..444, 428..550, 454..549, 602..751, 608..709, 723..770		

Seq. No.	27562	Seq. ID	OJ000150_17.0124.C64
Gene No.	56955	Strand	+
Start	3827	End	4852
Name	OJ000150_17.0124.C64.o1.tm	Method	TBLASTX:Maize
Start	1594	End	1954
GI	none	Score	461
Exons	1594..1953, 1595..1954, 1595..1954		

Seq. No.	27562	Seq. ID	OJ000150_17.0124.C64
Gene No.	56955	Strand	+
Start	3827	End	4852
Name	OJ000150_17.0124.C64.o2.gs	Method	GENSCAN
Start	3827	End	4852
GI	none	Score	.8
Exons	3827..3908, 4459..4651, 4786..4852		

Seq. No.	27563	Seq. ID	OJ000150_17.0124.C68
Gene No.	56956	Strand	-
Start	1	End	386
Name	OJ000150_17.0124.C68.o1.np	Method	AAT/NAP
Start	1	End	386
GI	1707980	Score	77

Exons 1..56, 238..386  
 GI Descrip. GLUTAREDOXIN gi|1084458|pir||S41736 glutaredoxin  
 thioltransferase - Rice gi|485953|emb|CAA54397| (X77150)  
 glutaredoxin [Oryza sativa]

Seq. No.	27564	Seq. ID	OJ000150_17.0124.C69
Gene No.	56957	Strand	-
Start	34	End	316
Name	OJ000150_17.0124.C69.o1.gp	Method	AAT/GAP
Start	34	End	316
GI	none	Score	466
Exons	34..316		

Seq. No.	27565	Seq. ID	OJ000150_17.0124.C70
Gene No.	56958	Strand	-
Start	75	End	177
Name	OJ000150_17.0124.C70.o1.gs	Method	GENSCAN
Start	75	End	177
GI	none	Score	.77
Exons	75..177		

Seq. No.	27566	Seq. ID	OJ000150_17.0124.C71
Gene No.	56959	Strand	-
Start	1	End	906
Name	OJ000150_17.0124.C71.o1.np	Method	AAT/NAP
Start	1	End	906
GI	4218122	Score	197
Exons	1..639, 667..906		
GI Descrip.	(AL035353) putative protein [Arabidopsis thaliana]		

Seq. No.	27566	Seq. ID	OJ000150_17.0124.C71
Gene No.	56959	Strand	-
Start	1	End	906
Name	OJ000150_17.0124.C71.o1.gs	Method	GENSCAN
Start	141	End	834
GI	none	Score	.54
Exons	141..834		

Seq. No.	27567	Seq. ID	OJ000150_17.0124.C72
Gene No.	56960	Strand	+
Start	573	End	676
Name	OJ000150_17.0124.C72.o1.gs	Method	GENSCAN
Start	573	End	676
GI	none	Score	.75
Exons	573..676		

Seq. No.	27568	Seq. ID	OJ000150_17.0124.C78
Gene No.	56961	Strand	-
Start	111	End	570
Name	OJ000150_17.0124.C78.o1.gs	Method	GENSCAN
Start	111	End	570
GI	none	Score	.48
Exons	111..570		

Seq. No.	27568	Seq. ID	OJ000150_17.0124.C78
Gene No.	56962	Strand	-
Start	951	End	1130

Name	OJ000150_17.0124.C78.o2.gs	Method	GENSCAN
Start	951	End	1130
GI	none	Score	.65
Exons	951..1130		

Seq. No.	27569	Seq. ID	OJ000150_17.0124.C84
Gene No.	56963	Strand	-
Start	79	End	735
Name	OJ000150_17.0124.C84.o1.np	Method	AAT/NAP
Start	79	End	735
GI	3928543	Score	591
Exons	79..735		
GI Descrip.	(AB016819) UDP-glucose glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	27569	Seq. ID	OJ000150_17.0124.C84
Gene No.	56963	Strand	-
Start	79	End	735
Name	OJ000150_17.0124.C84.o1.gs	Method	GENSCAN
Start	81	End	690
GI	none	Score	.71
Exons	81..690		

Seq. No.	27569	Seq. ID	OJ000150_17.0124.C84
Gene No.	56963	Strand	-
Start	79	End	735
Name	OJ000150_17.0124.C84.o1.tm	Method	TBLASTX:Maize
Start	82	End	675
GI	none	Score	416
Exons	82..510, 89..493, 253..510, 511..600, 511..675, 608..670		

Seq. No.	27569	Seq. ID	OJ000150_17.0124.C84
Gene No.	56963	Strand	-
Start	79	End	735
Name	OJ000150_17.0124.C84.o1.ts	Method	TBLASTX:Soybean
Start	91	End	709
GI	none	Score	221
Exons	91..510, 131..493, 517..708, 605..709		

Seq. No.	27569	Seq. ID	OJ000150_17.0124.C84
Gene No.	56963	Strand	-
Start	79	End	735
Name	OJ000150_17.0124.C84.o1.tc	Method	TBLASTX:Cress
Start	140	End	726
GI	none	Score	254
Exons	140..493, 142..510, 511..726, 524..709		

Seq. No.	27569	Seq. ID	OJ000150_17.0124.C84
Gene No.	56963	Strand	-
Start	79	End	735
Name	OJ000150_17.0124.C84.o1.tw	Method	TBLASTX:Wheat
Start	272	End	669
GI	none	Score	174
Exons	272..493, 274..495, 523..669		

Seq. No.	27570	Seq. ID	OJ000150_17.0124.C87
Gene No.	56964	Strand	-

Start	497	End	611
Name	OJ000150_17.0124.C87.ol.gp	Method	AAT/GAP
Start	497	End	611
GI	none	Score	192
Exons	497..611		

Seq. No.	27571	Seq. ID	OJ000150_17.0124.C90
Gene No.	56965	Strand	-
Start	334	End	882
Name	OJ000150_17.0124.C90.ol.np	Method	AAT/NAP
Start	334	End	882
GI	4971998	Score	168
Exons	334..414, 509..728, 807..882		
GI Descrip.	(Y14685) polynucleotide phosphorylase [Arabidopsis thaliana] gi 4972000 emb CAB43865.1  (Y14686) polynucleotide phosphorylase [Arabidopsis thaliana]		

Seq. No.	27571	Seq. ID	OJ000150_17.0124.C90
Gene No.	56965	Strand	-
Start	334	End	882
Name	OJ000150_17.0124.C90.ol.gp	Method	AAT/GAP
Start	343	End	684
GI	43584_1.R1084	Score	430
Exons	343..414, 509..684		
GI Descrip.	'4971998/emb CAB43864.1  1.0e-53 (Y14685) polynucleotide phosphorylase [Arabidopsis thaliana] >gi_4972000_emb_CAB43865.1_ (Y14686) polynucleotide phosphorylase [Arabidopsis thaliana]'		

Seq. No.	27571	Seq. ID	OJ000150_17.0124.C90
Gene No.	56965	Strand	-
Start	334	End	882
Name	OJ000150_17.0124.C90.ol.gs	Method	GENSCAN
Start	343	End	749
GI	none	Score	.67
Exons	343..414, 509..749		

Seq. No.	27572	Seq. ID	OJ000150_17.0124.C91
Gene No.	56966	Strand	+
Start	1	End	301
Name	OJ000150_17.0124.C91.ol.np	Method	AAT/NAP
Start	1	End	301
GI	3249567	Score	89
Exons	1..45, 234..301		
GI Descrip.	(AF047694) glutaredoxin [Vernicia fordii]		

Seq. No.	27573	Seq. ID	OJ000150_16.0124.C1
Gene No.	56967	Strand	+
Start	299	End	636
Name	OJ000150_16.0124.C1.ol.gp	Method	AAT/GAP
Start	299	End	623
GI	18847_1.R1084	Score	413
Exons	299..381, 468..623		
GI Descrip.	'4581520/emb CAB40177.1  5.0e-38 (AL049559) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	27573	Seq. ID	OJ000150_16.0124.C1
Gene No.	56967	Strand	+

Start	299	End	636
Name	OJ000150_16.0124.C1.ol.np	Method	AAT/NAP
Start	311	End	584
GI	2245000	Score	83
Exons	311..381, 468..584		
GI Descrip.	(Z97341) LET1 like protein [Arabidopsis thaliana]		

Seq. No.	27573	Seq. ID	OJ000150_16.0124.C1
Gene No.	56967	Strand	+
Start	299	End	636
Name	OJ000150_16.0124.C1.ol.ts	Method	TBLASTX:Soybean
Start	337	End	636
GI	none	Score	62
Exons	337..381, 341..379, 465..611, 466..630, 466..636		

Seq. No.	27573	Seq. ID	OJ000150_16.0124.C1
Gene No.	56967	Strand	+
Start	299	End	636
Name	OJ000150_16.0124.C1.ol.gs	Method	GENSCAN
Start	468	End	621
GI	none	Score	.98
Exons	468..621		

Seq. No.	27574	Seq. ID	OJ000150_16.0124.C2
Gene No.	56968	Strand	-
Start	1	End	880
Name	OJ000150_16.0124.C2.ol.np	Method	AAT/NAP
Start	1	End	880
GI	1203832	Score	397
Exons	1..242, 587..691, 798..880		
GI Descrip.	(U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] gi 1588407 prf  2208395A beta-D-glucan exohydrolase [Hordeum vulgare]		

Seq. No.	27574	Seq. ID	OJ000150_16.0124.C2
Gene No.	56968	Strand	-
Start	1	End	880
Name	OJ000150_16.0124.C2.ol.tw	Method	TBLASTX:Wheat
Start	58	End	656
GI	none	Score	127
Exons	58..159, 59..241, 60..242, 60..242, 62..265, 584..655, 588..656, 589..648		

Seq. No.	27574	Seq. ID	OJ000150_16.0124.C2
Gene No.	56968	Strand	-
Start	1	End	880
Name	OJ000150_16.0124.C2.ol.tm	Method	TBLASTX:Maize
Start	59	End	694
GI	none	Score	187
Exons	59..241, 60..242, 60..242, 584..694, 587..691, 589..693		

Seq. No.	27574	Seq. ID	OJ000150_16.0124.C2
Gene No.	56968	Strand	-
Start	1	End	880
Name	OJ000150_16.0124.C2.ol.gp	Method	AAT/GAP
Start	60	End	818
GI	16311_1.R1084	Score	529

Exons 60..242, 587..691, 798..818  
 GI Descrip. '1203832 0.0e+00 (U46003) beta-D-glucan exohydrolase, isoenzyme  
 ExoII [Hordeum vulgare] >gi\_1588407\_prf\_\_2208395A beta-D-glucan  
 exohydrolase [Hordeum vulgare]'

Seq. No. 27574 Seq. ID OJ000150\_16.0124.C2  
 Gene No. 56968 Strand -  
 Start 1 End 880  
 Name OJ000150\_16.0124.C2.o1.ts Method TBLASTX:Soybean  
 Start 60 End 694  
 GI none Score 88  
 Exons 60..242, 67..159, 149..244, 582..692, 584..694, 592..693

Seq. No. 27574 Seq. ID OJ000150\_16.0124.C2  
 Gene No. 56968 Strand -  
 Start 1 End 880  
 Name OJ000150\_16.0124.C2.o1.gs Method GENSCAN  
 Start 60 End 691  
 GI none Score 1  
 Exons 60..242, 587..691

Seq. No. 27574 Seq. ID OJ000150\_16.0124.C2  
 Gene No. 56968 Strand -  
 Start 1 End 880  
 Name OJ000150\_16.0124.C2.o1.tc Method TBLASTX:Cress  
 Start 88 End 694  
 GI none Score 56  
 Exons 88..159, 99..242, 582..692, 584..694, 589..693

Seq. No. 27575 Seq. ID OJ000150\_16.0124.C3  
 Gene No. 56969 Strand -  
 Start 1 End 345  
 Name OJ000150\_16.0124.C3.o1.np Method AAT/NAP  
 Start 1 End 343  
 GI 4581520 Score 113  
 Exons 1..107, 217..343  
 GI Descrip. (AL049559) hypothetical protein [Schizosaccharomyces pombe]

Seq. No. 27575 Seq. ID OJ000150\_16.0124.C3  
 Gene No. 56969 Strand -  
 Start 1 End 345  
 Name OJ000150\_16.0124.C3.o1.gp Method AAT/GAP  
 Start 53 End 343  
 GI 18847\_1.R1084 Score 306  
 Exons 53..107, 217..343  
 GI Descrip. '4581520/emb|CAB40177.1| 5.0e-38 (AL049559) hypothetical protein  
 [Schizosaccharomyces pombe]'

Seq. No. 27575 Seq. ID OJ000150\_16.0124.C3  
 Gene No. 56969 Strand -  
 Start 1 End 345  
 Name OJ000150\_16.0124.C3.o1.tc Method TBLASTX:Cress  
 Start 56 End 345  
 GI none Score 67  
 Exons 56..109, 59..109, 216..344, 244..345

Seq. No. 27575 Seq. ID OJ000150\_16.0124.C3

Gene No.	56969	Strand	-
Start	1	End	345
Name	OJ000150_16.0124.C3.ol.ts	Method	TBLASTX:Soybean
Start	56	End	345
GI	none	Score	60
Exons	56..106, 57..110, 219..344, 259..345		

Seq. No.	27575	Seq. ID	OJ000150_16.0124.C3
Gene No.	56969	Strand	-
Start	1	End	345
Name	OJ000150_16.0124.C3.ol.gs	Method	GENSCAN
Start	213	End	343
GI	none	Score	.42
Exons	213..343		

Seq. No.	27576	Seq. ID	OJ000150_16.0124.C5
Gene No.	56970	Strand	-
Start	530	End	633
Name	OJ000150_16.0124.C5.ol.tm	Method	TBLASTX:Maize
Start	526	End	633
GI	none	Score	162
Exons	526..633, 528..632		

Seq. No.	27576	Seq. ID	OJ000150_16.0124.C5
Gene No.	56970	Strand	-
Start	530	End	633
Name	OJ000150_16.0124.C5.ol.np	Method	AAT/NAP
Start	530	End	626
GI	2326229	Score	125
Exons	530..626		
GI Descrip.	(AF012888) tousled-like kinase 1 [Zea mays]		

Seq. No.	27577	Seq. ID	OJ000150_16.0124.C7
Gene No.	56971	Strand	-
Start	628	End	949
Name	OJ000150_16.0124.C7.ol.gs	Method	GENSCAN
Start	628	End	949
GI	none	Score	.94
Exons	628..695, 796..949		

Seq. No.	27578	Seq. ID	OJ000150_16.0124.C8
Gene No.	56972	Strand	-
Start	332	End	457
Name	OJ000150_16.0124.C8.ol.gs	Method	GENSCAN
Start	332	End	457
GI	none	Score	.87
Exons	332..457		

Seq. No.	27579	Seq. ID	OJ000150_16.0124.C9
Gene No.	56973	Strand	-
Start	370	End	468
Name	OJ000150_16.0124.C9.ol.gs	Method	GENSCAN
Start	370	End	468
GI	none	Score	.75
Exons	370..468		

Seq. No.	27580	Seq. ID	OJ000150_16.0124.C10
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Gene No.	56974	Strand	+
Start	450	End	750
Name	OJ000150_16.0124.C10.o1.gp	Method	AAT/GAP
Start	450	End	750
GI	uC-osrocyp005g06b1	Score	598
Exons	450..750		
GI Descrip.	'280523/pir  S28282 1.0e-24 hypothetical protein B0464.5 - Caenorhabditis elegans'		
Seq. No.	27580	Seq. ID	OJ000150_16.0124.C10
Gene No.	56974	Strand	+
Start	450	End	750
Name	OJ000150_16.0124.C10.o1.gs	Method	GENSCAN
Start	574	End	719
GI	none	Score	.99
Exons	574..719		
Seq. No.	27581	Seq. ID	OJ000150_16.0124.C11
Gene No.	56975	Strand	+
Start	593	End	763
Name	OJ000150_16.0124.C11.o1.gs	Method	GENSCAN
Start	593	End	763
GI	none	Score	.4
Exons	593..763		
Seq. No.	27582	Seq. ID	OJ000150_16.0124.C12
Gene No.	56976	Strand	-
Start	1	End	559
Name	OJ000150_16.0124.C12.o1.np	Method	AAT/NAP
Start	1	End	559
GI	5803259	Score	862
Exons	1..559		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		
Seq. No.	27582	Seq. ID	OJ000150_16.0124.C12
Gene No.	56976	Strand	-
Start	1	End	559
Name	OJ000150_16.0124.C12.o1.gs	Method	GENSCAN
Start	26	End	529
GI	none	Score	.96
Exons	26..529		
Seq. No.	27583	Seq. ID	OJ000150_16.0124.C14
Gene No.	56977	Strand	+
Start	1	End	515
Name	OJ000150_16.0124.C14.o1.np	Method	AAT/NAP
Start	1	End	515
GI	6223643	Score	435
Exons	1..515		
GI Descrip.	(AC011698) putative short-chain type dehydrogenase/reductase [Arabidopsis thaliana]		
Seq. No.	27583	Seq. ID	OJ000150_16.0124.C14
Gene No.	56978	Strand	-
Start	62	End	521
Name	OJ000150_16.0124.C14.o1.ts	Method	TBLASTX:Soybean
Start	2	End	367



GI	none	Score	122
Exons	2..46, 7..54, 32..178, 37..171, 95..178, 176..310, 177..335, 267..335, 311..367		

Seq. No.	27583	Seq. ID	OJ000150_16.0124.C14
Gene No.	56978	Strand	-
Start	62	End	521
Name	OJ000150_16.0124.C14.ol.tc	Method	TBLASTX:Cress
Start	37	End	442
GI	none	Score	112
Exons	37..171, 38..178, 177..434, 257..442		

Seq. No.	27583	Seq. ID	OJ000150_16.0124.C14
Gene No.	56978	Strand	-
Start	62	End	521
Name	OJ000150_16.0124.C14.ol.tm	Method	TBLASTX:Maize
Start	50	End	521
GI	none	Score	161
Exons	50..178, 67..171, 173..520, 174..521		

Seq. No.	27583	Seq. ID	OJ000150_16.0124.C14
Gene No.	56978	Strand	-
Start	62	End	521
Name	OJ000150_16.0124.C14.ol.gs	Method	GENSCAN
Start	62	End	493
GI	none	Score	.8
Exons	62..493		

Seq. No.	27584	Seq. ID	OJ000150_16.0124.C16
Gene No.	56979	Strand	+
Start	1	End	702
Name	OJ000150_16.0124.C16.ol.np	Method	AAT/NAP
Start	1	End	702
GI	6223640	Score	295
Exons	1..57, 137..374, 654..702		
GI Descrip.	(AC011698) unknown protein [Arabidopsis thaliana]		

Seq. No.	27584	Seq. ID	OJ000150_16.0124.C16
Gene No.	56979	Strand	+
Start	1	End	702
Name	OJ000150_16.0124.C16.ol.tc	Method	TBLASTX:Cress
Start	118	End	370
GI	none	Score	163
Exons	118..351, 136..351, 137..370		

Seq. No.	27584	Seq. ID	OJ000150_16.0124.C16
Gene No.	56979	Strand	+
Start	1	End	702
Name	OJ000150_16.0124.C16.ol.tw	Method	TBLASTX:Wheat
Start	133	End	355
GI	none	Score	242
Exons	133..345, 136..348, 137..355, 137..349		

Seq. No.	27584	Seq. ID	OJ000150_16.0124.C16
Gene No.	56979	Strand	+
Start	1	End	702
Name	OJ000150_16.0124.C16.ol.tm	Method	TBLASTX:Maize

Start 136  
 GI none  
 Exons 136..351, 137..370

End 370  
 Score 387

Seq. No. 27584  
 Gene No. 56979  
 Start 1  
 Name OJ000150\_16.0124.C16.ol.ts  
 Start 136  
 GI none  
 Exons 136..351, 137..352, 210..365

Seq. ID OJ000150\_16.0124.C16  
 Strand +  
 End 702  
 Method TBLASTX:Soybean  
 End 365  
 Score 372

Seq. No. 27584  
 Gene No. 56979  
 Start 1  
 Name OJ000150\_16.0124.C16.ol.gs  
 Start 173  
 GI none  
 Exons 173..349

Seq. ID OJ000150\_16.0124.C16  
 Strand +  
 End 702  
 Method GENSCAN  
 End 349  
 Score .46

Seq. No. 27585  
 Gene No. 56980  
 Start 131  
 Name OJ000150\_16.0124.C17.ol.gs  
 Start 131  
 GI none  
 Exons 131..305

Seq. ID OJ000150\_16.0124.C17  
 Strand +  
 End 305  
 Method GENSCAN  
 End 305  
 Score .93

Seq. No. 27585  
 Gene No. 56981  
 Start 362  
 Name OJ000150\_16.0124.C17.ol.gp  
 Start 362  
 GI LIB3477-003-P1-K1-E9  
 Exons 362..434, 492..537

Seq. ID OJ000150\_16.0124.C17  
 Strand +  
 End 537  
 Method AAT/GAP  
 End 537  
 Score 155

GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No. 27585  
 Gene No. 56982  
 Start 1  
 Name OJ000150\_16.0124.C17.ol.np  
 Start 1  
 GI 6598436  
 Exons 1..24, 115..306

Seq. ID OJ000150\_16.0124.C17  
 Strand -  
 End 306  
 Method AAT/NAP  
 End 306  
 Score 132

GI Descrip. (AC004683) putative ammonium transporter [Arabidopsis thaliana]

Seq. No. 27586  
 Gene No. 56983  
 Start 1  
 Name OJ000150\_16.0124.C19.ol.gp  
 Start 1  
 GI 64\_1.R1084  
 Exons 1..404, 456..524

Seq. ID OJ000150\_16.0124.C19  
 Strand -  
 End 524  
 Method AAT/GAP  
 End 524  
 Score 758

GI Descrip. '4126687/dbj|BAA36695| 0.0e+00 (AB016501) glutelin [Oryza sativa]'

Seq. No.	27586	Seq. ID	OJ000150_16.0124.C19
Gene No.	56983	Strand	-
Start	1	End	524
Name	OJ000150_16.0124.C19.o1.gs	Method	GENSCAN
Start	288	End	442
GI	none	Score	.56
Exons	288..442		
Seq. No.	27587	Seq. ID	OJ000150_16.0124.C20
Gene No.	56984	Strand	+
Start	1	End	390
Name	OJ000150_16.0124.C20.o1.np	Method	AAT/NAP
Start	1	End	390
GI	4887746	Score	191
Exons	1..390		
GI Descrip.	(AC006533) putative unconventional myosin [Arabidopsis thaliana]		
Seq. No.	27587	Seq. ID	OJ000150_16.0124.C20
Gene No.	56984	Strand	+
Start	1	End	390
Name	OJ000150_16.0124.C20.o1.gs	Method	GENSCAN
Start	148	End	354
GI	none	Score	.88
Exons	148..354		
Seq. No.	27587	Seq. ID	OJ000150_16.0124.C20
Gene No.	56984	Strand	+
Start	1	End	390
Name	OJ000150_16.0124.C20.o1.tm	Method	TBLASTX:Maize
Start	162	End	381
GI	none	Score	239
Exons	162..356, 162..380, 163..381		
Seq. No.	27587	Seq. ID	OJ000150_16.0124.C20
Gene No.	56984	Strand	+
Start	1	End	390
Name	OJ000150_16.0124.C20.o1.tc	Method	TBLASTX:Cress
Start	204	End	358
GI	none	Score	191
Exons	204..350, 205..354, 233..358, 236..358		
Seq. No.	27587	Seq. ID	OJ000150_16.0124.C20
Gene No.	56984	Strand	+
Start	1	End	390
Name	OJ000150_16.0124.C20.o1.ts	Method	TBLASTX:Soybean
Start	214	End	358
GI	none	Score	189
Exons	214..354, 228..350, 233..358, 234..356		
Seq. No.	27588	Seq. ID	OJ000150_16.0124.C25
Gene No.	56985	Strand	-
Start	1	End	669
Name	OJ000150_16.0124.C25.o1.np	Method	AAT/NAP
Start	1	End	669
GI	1076385	Score	295
Exons	1..81, 267..457, 596..669		

GI Descrip. protein kinase (EC 2.7.1.37) tousled - Arabidopsis thaliana  
gi|433052 (L23985) protein kinase [Arabidopsis thaliana]

Seq. No.	27588	Seq. ID	OJ000150_16.0124.C25
Gene No.	56985	Strand	-
Start	1	End	669
Name	OJ000150_16.0124.C25.o1.tc	Method	TBLASTX:Cress
Start	1	End	431
GI	none	Score	91
Exons	1..105, 5..82, 267..296, 283..429, 297..431, 298..429		

Seq. No.	27588	Seq. ID	OJ000150_16.0124.C25
Gene No.	56985	Strand	-
Start	1	End	669
Name	OJ000150_16.0124.C25.o1.tm	Method	TBLASTX:Maize
Start	1	End	452
GI	none	Score	101
Exons	1..105, 2..106, 207..452, 208..444		

Seq. No.	27588	Seq. ID	OJ000150_16.0124.C25
Gene No.	56985	Strand	-
Start	1	End	669
Name	OJ000150_16.0124.C25.o1.gs	Method	GENSCAN
Start	267	End	428
GI	none	Score	.85
Exons	267..428		

Seq. No.	27589	Seq. ID	OJ000150_16.0124.C26
Gene No.	56986	Strand	+
Start	487	End	612
Name	OJ000150_16.0124.C26.o1.gs	Method	GENSCAN
Start	487	End	612
GI	none	Score	.85
Exons	487..612		

Seq. No.	27590	Seq. ID	OJ000150_16.0124.C27
Gene No.	56987	Strand	-
Start	97	End	309
Name	OJ000150_16.0124.C27.o1.gs	Method	GENSCAN
Start	97	End	229
GI	none	Score	.68
Exons	97..229		

Seq. No.	27590	Seq. ID	OJ000150_16.0124.C27
Gene No.	56987	Strand	-
Start	97	End	309
Name	OJ000150_16.0124.C27.o1.tm	Method	TBLASTX:Maize
Start	97	End	309
GI	none	Score	69
Exons	97..150, 98..148, 106..309, 146..298		

Seq. No.	27591	Seq. ID	OJ000150_16.0124.C29
Gene No.	56988	Strand	+
Start	120	End	268
Name	OJ000150_16.0124.C29.o1.gs	Method	GENSCAN
Start	120	End	268
GI	none	Score	.84

Exons 120..174, 193..268

Seq. No.	27592	Seq. ID	OJ000150_16.0124.C30
Gene No.	56989	Strand	-
Start	184	End	722
Name	OJ000150_16.0124.C30.ol.gp	Method	AAT/GAP
Start	184	End	634
GI	18064_1.R1084	Score	849
Exons	184..634		
GI Descrip.	'2245000/emb CAB10420.1  1.0e-20 (Z97341) LET1 like protein [Arabidopsis thaliana]'		

Seq. No.	27592	Seq. ID	OJ000150_16.0124.C30
Gene No.	56989	Strand	-
Start	184	End	722
Name	OJ000150_16.0124.C30.ol.gs	Method	GENSCAN
Start	482	End	634
GI	none	Score	.77
Exons	482..634		

Seq. No.	27592	Seq. ID	OJ000150_16.0124.C30
Gene No.	56989	Strand	-
Start	184	End	722
Name	OJ000150_16.0124.C30.ol.ts	Method	TBLASTX:Soybean
Start	482	End	643
GI	none	Score	143
Exons	482..643, 483..635		

Seq. No.	27592	Seq. ID	OJ000150_16.0124.C30
Gene No.	56989	Strand	-
Start	184	End	722
Name	OJ000150_16.0124.C30.ol.np	Method	AAT/NAP
Start	485	End	722
GI	2245000	Score	186
Exons	485..722		
GI Descrip.	(Z97341) LET1 like protein [Arabidopsis thaliana]		

Seq. No.	27593	Seq. ID	OJ000150_16.0124.C31
Gene No.	56990	Strand	+
Start	1	End	697
Name	OJ000150_16.0124.C31.ol.np	Method	AAT/NAP
Start	1	End	697
GI	1203832	Score	520
Exons	1..161, 279..421, 561..697		
GI Descrip.	(U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] gi 1588407 prf  2208395A beta-D-glucan exohydrolase [Hordeum vulgare]		

Seq. No.	27593	Seq. ID	OJ000150_16.0124.C31
Gene No.	56990	Strand	+
Start	1	End	697
Name	OJ000150_16.0124.C31.ol.gp	Method	AAT/GAP
Start	68	End	697
GI	16311_1.R1084	Score	678
Exons	68..161, 279..421, 561..697		
GI Descrip.	'1203832 0.0e+00 (U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] >gi_1588407_prf__2208395A beta-D-glucan		

exohydrolase [*Hordeum vulgare*]

Seq. No.	27593	Seq. ID	OJ000150_16.0124.C31
Gene No.	56990	Strand	+
Start	1	End	697
Name	OJ000150_16.0124.C31.o1.tm	Method	TBLASTX:Maize
Start	68	End	696
GI	none	Score	154
Exons	68..169, 69..164, 277..420, 278..421, 279..419, 409..429, 558..695, 558..695, 559..696		

Seq. No.	27593	Seq. ID	OJ000150_16.0124.C31
Gene No.	56990	Strand	+
Start	1	End	697
Name	OJ000150_16.0124.C31.o1.tw	Method	TBLASTX:Wheat
Start	68	End	359
GI	none	Score	127
Exons	68..151, 69..158, 276..359, 278..358		

Seq. No.	27593	Seq. ID	OJ000150_16.0124.C31
Gene No.	56990	Strand	+
Start	1	End	697
Name	OJ000150_16.0124.C31.o1.tc	Method	TBLASTX:Cress
Start	68	End	681
GI	none	Score	122
Exons	68..169, 69..167, 278..385, 279..386, 558..638, 568..681		

Seq. No.	27593	Seq. ID	OJ000150_16.0124.C31
Gene No.	56990	Strand	+
Start	1	End	697
Name	OJ000150_16.0124.C31.o1.gs	Method	GENSCAN
Start	71	End	421
GI	none	Score	.93
Exons	71..161, 279..421		

Seq. No.	27593	Seq. ID	OJ000150_16.0124.C31
Gene No.	56990	Strand	+
Start	1	End	697
Name	OJ000150_16.0124.C31.o1.ts	Method	TBLASTX:Soybean
Start	128	End	662
GI	none	Score	65
Exons	128..163, 129..164, 274..375, 278..385, 279..398, 537..662, 564..638, 565..660		

Seq. No.	27593	Seq. ID	OJ000150_16.0124.C31
Gene No.	56990	Strand	+
Start	1	End	697
Name	OJ000150_16.0124.C31.o2.tw	Method	TBLASTX:Wheat
Start	547	End	693
GI	none	Score	189
Exons	547..693, 558..674, 562..687		

Seq. No.	27594	Seq. ID	OJ000150_16.0124.C32
Gene No.	56991	Strand	+
Start	1	End	619
Name	OJ000150_16.0124.C32.o1.np	Method	AAT/NAP
Start	1	End	619

GI 4204265 Score 560  
 Exons 1..302, 382..619  
 GI Descrip. (AC005223) 45643 [Arabidopsis thaliana]

Seq. No. 27594 Seq. ID OJ000150\_16.0124.C32  
 Gene No. 56991 Strand +  
 Start 1 End 619  
 Name OJ000150\_16.0124.C32.ol:gp Method AAT/GAP  
 Start 65 End 249  
 GI 12993\_1.R1084 Score 336  
 Exons 65..249  
 GI Descrip. '4204265 5.0e-42 (AC005223) 45643 [Arabidopsis thaliana]'

Seq. No. 27594 Seq. ID OJ000150\_16.0124.C32  
 Gene No. 56991 Strand +  
 Start 1 End 619  
 Name OJ000150\_16.0124.C32.ol:ts Method TBLASTX:Soybean  
 Start 68 End 610  
 GI none Score 301  
 Exons 68..313, 69..308, 119..316, 381..596, 382..597, 455..610

Seq. No. 27594 Seq. ID OJ000150\_16.0124.C32  
 Gene No. 56991 Strand +  
 Start 1 End 619  
 Name OJ000150\_16.0124.C32.ol:tc Method TBLASTX:Cress  
 Start 72 End 615  
 GI none Score 96  
 Exons 72..302, 82..267, 87..308, 89..313, 363..596, 381..596, 382..615

Seq. No. 27594 Seq. ID OJ000150\_16.0124.C32  
 Gene No. 56991 Strand +  
 Start 1 End 619  
 Name OJ000150\_16.0124.C32.ol:tm Method TBLASTX:Maize  
 Start 72 End 615  
 GI none Score 373  
 Exons 72..308, 75..305, 77..310, 77..313, 381..596, 382..615

Seq. No. 27594 Seq. ID OJ000150\_16.0124.C32  
 Gene No. 56991 Strand +  
 Start 1 End 619  
 Name OJ000150\_16.0124.C32.ol:gs Method GENSCAN  
 Start 75 End 594  
 GI none Score .67  
 Exons 75..302, 382..594

Seq. No. 27594 Seq. ID OJ000150\_16.0124.C32  
 Gene No. 56991 Strand +  
 Start 1 End 619  
 Name OJ000150\_16.0124.C32.ol:tw Method TBLASTX:Wheat  
 Start 378 End 600  
 GI none Score 242  
 Exons 378..590, 381..593, 382..600, 382..594

Seq. No. 27595 Seq. ID OJ000150\_16.0124.C33  
 Gene No. 56992 Strand +  
 Start 186 End 750  
 Name OJ000150\_16.0124.C33.ol:tm Method TBLASTX:Maize

Start	185	End	544
GI	none	Score	160
Exons	185..286, 186..284, 190..285, 191..286, 364..459, 365..544, 365..544		

Seq. No.	27595	Seq. ID	OJ000150_16.0124.C33
Gene No.	56992	Strand	+
Start	186	End	750
Name	OJ000150_16.0124.C33.ol.np	Method	AAT/NAP
Start	186	End	750
GI	1076385	Score	246
Exons	186..284, 365..544, 665..750		
GI Descrip.	protein kinase (EC 2.7.1.37) tousled - Arabidopsis thaliana gi 433052 (L23985) protein kinase [Arabidopsis thaliana]		

Seq. No.	27595	Seq. ID	OJ000150_16.0124.C33
Gene No.	56992	Strand	+
Start	186	End	750
Name	OJ000150_16.0124.C33.ol.tc	Method	TBLASTX:Cress
Start	186	End	548
GI	none	Score	56
Exons	186..239, 216..284, 227..286, 364..459, 365..544, 371..544, 444..548		

Seq. No.	27595	Seq. ID	OJ000150_16.0124.C33
Gene No.	56992	Strand	+
Start	186	End	750
Name	OJ000150_16.0124.C33.ol.gs	Method	GENSCAN
Start	187	End	544
GI	none	Score	.93
Exons	187..284, 365..544		

Seq. No.	27596	Seq. ID	OJ000150_16.0124.C35
Gene No.	56993	Strand	+
Start	110	End	193
Name	OJ000150_16.0124.C35.ol.gs	Method	GENSCAN
Start	110	End	193
GI	none	Score	.57
Exons	110..193		

Seq. No.	27597	Seq. ID	OJ000150_16.0124.C37
Gene No.	56994	Strand	+
Start	1	End	725
Name	OJ000150_16.0124.C37.ol.np	Method	AAT/NAP
Start	1	End	725
GI	3367568	Score	246
Exons	1..279, 379..604, 702..725		
GI Descrip.	(AL031135) protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	27597	Seq. ID	OJ000150_16.0124.C37
Gene No.	56994	Strand	+
Start	1	End	725
Name	OJ000150_16.0124.C37.ol.gp	Method	AAT/GAP
Start	59	End	265
GI	uC-osflM202075h07b1	Score	384
Exons	59..265		
GI Descrip.	'3367568/emb CAA20020  9.0e-15 (AL031135) protein kinase - like		



protein [Arabidopsis thaliana]

Seq. No.	27597	Seq. ID	OJ000150_16.0124.C37
Gene No.	56995	Strand	-
Start	61	End	613
Name	OJ000150_16.0124.C37.ol.tm	Method	TBLASTX:Maize
Start	59	End	510
GI	none	Score	136
Exons	59..268, 60..284, 60..278, 61..303, 348..509, 366..509, 367..510, 367..510		

Seq. No.	27597	Seq. ID	OJ000150_16.0124.C37
Gene No.	56995	Strand	-
Start	61	End	613
Name	OJ000150_16.0124.C37.ol.gs	Method	GENSCAN
Start	61	End	418
GI	none	Score	.41
Exons	61..235, 385..418		

Seq. No.	27597	Seq. ID	OJ000150_16.0124.C37
Gene No.	56995	Strand	-
Start	61	End	613
Name	OJ000150_16.0124.C37.ol.tc	Method	TBLASTX:Cress
Start	359	End	613
GI	none	Score	387
Exons	359..478, 375..560, 376..603, 515..613, 515..604		

Seq. No.	27597	Seq. ID	OJ000150_16.0124.C37
Gene No.	56995	Strand	-
Start	61	End	613
Name	OJ000150_16.0124.C37.ol.ts	Method	TBLASTX:Soybean
Start	381	End	606
GI	none	Score	399
Exons	381..560, 382..606		

Seq. No.	27598	Seq. ID	OJ000150_16.0124.C39
Gene No.	56996	Strand	-
Start	188	End	509
Name	OJ000150_16.0124.C39.ol.gs	Method	GENSCAN
Start	188	End	509
GI	none	Score	.95
Exons	188..255, 356..509		

Seq. No.	27599	Seq. ID	OJ000150_16.0124.C40
Gene No.	56997	Strand	+
Start	1	End	721
Name	OJ000150_16.0124.C40.ol.np	Method	AAT/NAP
Start	1	End	721
GI	1076385	Score	57
Exons	1..41, 175..289, 373..423, 681..721		
GI Descrip.	protein kinase (EC 2.7.1.37) tousled - Arabidopsis thaliana g1433052 (L23985) protein kinase [Arabidopsis thaliana]		

Seq. No.	27599	Seq. ID	OJ000150_16.0124.C40
Gene No.	56997	Strand	+
Start	1	End	721
Name	OJ000150_16.0124.C40.ol.gs	Method	GENSCAN

Start 182  
 GI none  
 Exons 182..289, 373..429

End 429  
 Score .92

Seq. No. 27600 Seq. ID OJ000150\_16.0124.C41  
 Gene No. 56998 Strand +  
 Start 1581 End 12858  
 Name OJ000150\_16.0124.C41.o2.np Method AAT/NAP  
 Start 1581 End 10435  
 GI 1076385 Score 1638  
 Exons 1581..1705, 1794..1901, 2072..2166, 2282..2488, 3674..3836,  
 3920..3964, 4505..4617, 4989..5055, 5675..5743, 6052..6150,  
 6231..6410, 6993..7203, 7993..8257, 8653..8707, 9996..10157,  
 10343..10435

GI Descrip. protein kinase (EC 2.7.1.37) tousled - Arabidopsis thaliana  
 gi|433052 (L23985) protein kinase [Arabidopsis thaliana]

Seq. No. 27600 Seq. ID OJ000150\_16.0124.C41  
 Gene No. 56998 Strand +  
 Start 1581 End 12858  
 Name OJ000150\_16.0124.C41.o3.gs Method GENSCAN  
 Start 2486 End 12858  
 GI none Score .69  
 Exons 2486..2488, 3161..3370, 3729..3836, 4505..4617, 4989..5055,  
 5675..5741, 6053..6150, 6231..6410, 6993..7203, 7993..8257,  
 8653..8707, 9996..10157, 10343..10434, 11113..11175,  
 11563..11663, 11665..11821, 12160..12500, 12746..12858

Seq. No. 27600 Seq. ID OJ000150\_16.0124.C41  
 Gene No. 56999 Strand +  
 Start 18740 End 18991  
 Name OJ000150\_16.0124.C41.o5.gp Method AAT/GAP  
 Start 18740 End 18991  
 GI 8022\_1.R1084 Score 325  
 Exons 18740..18991  
 GI Descrip. '5091496/dbj|AB023482.2|AB023482 3.0e-37 Oryza sativa genomic  
 DNA, chromosome 6, clone P0680A03, complete sequence'

Seq. No. 27600 Seq. ID OJ000150\_16.0124.C41  
 Gene No. 57000 Strand +  
 Start 23928 End 24499  
 Name OJ000150\_16.0124.C41.o6.gp Method AAT/GAP  
 Start 23928 End 24499  
 GI none Score 1121  
 Exons 23928..24499

Seq. No. 27600 Seq. ID OJ000150\_16.0124.C41  
 Gene No. 57001 Strand +  
 Start 25706 End 25823  
 Name OJ000150\_16.0124.C41.o5.np Method AAT/NAP  
 Start 25706 End 25823  
 GI 5852093 Score 60  
 Exons 25706..25823  
 GI Descrip. (AL117264) zwh16.1 [Oryza sativa]

Seq. No. 27600 Seq. ID OJ000150\_16.0124.C41  
 Gene No. 57002 Strand +

Start	28728	End	29627
Name	OJ000150_16.0124.C41.o6.np	Method	AAT/NAP
Start	28728	End	29627
GI	5922623	Score	221
Exons	28728..28812, 29191..29343, 29511..29627		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57003	Strand	-
Start	244	End	922
Name	OJ000150_16.0124.C41.o1.gs	Method	GENSCAN
Start	244	End	898
GI	none	Score	.73
Exons	244..325, 419..898		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57003	Strand	-
Start	244	End	922
Name	OJ000150_16.0124.C41.o1.gp	Method	AAT/GAP
Start	269	End	771
GI	5667289	Score	772
Exons	269..325, 419..771		
GI Descrip.	3878737/emb CAA97808.1  4.0e-11 (Z73428) predicted using Genefinder; cDNA EST EMBL:T01774 comes from this gene; cDNA EST yk470a9.3 comes from this gene; cDNA EST yk470a9.5 comes from this gene; cDNA EST yk476b6.5 comes from this gene; cDNA EST yk563c12.3 co		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57003	Strand	-
Start	244	End	922
Name	OJ000150_16.0124.C41.o1.np	Method	AAT/NAP
Start	401	End	922
GI	6735364	Score	347
Exons	401..922		
GI Descrip.	(AL137082) putative protein [Arabidopsis thaliana]		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57004	Strand	-
Start	1268	End	1741
Name	OJ000150_16.0124.C41.o2.gs	Method	GENSCAN
Start	1268	End	1741
GI	none	Score	.46
Exons	1268..1741		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57005	Strand	-
Start	13028	End	16901
Name	OJ000150_16.0124.C41.o2.gp	Method	AAT/GAP
Start	13028	End	13356
GI	4714105	Score	627
Exons	13028..13356		
GI Descrip.	4731111/gb AAD28356.1 AF064707_1 3.0e-19 (AF064707) exhydrolase II [Zea mays]		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57005	Strand	-
Start	13028	End	16901
Name	OJ000150_16.0124.C41.o3.np	Method	AAT/NAP
Start	13211	End	15785
GI	4731111	Score	2635
Exons	13211..13900, 13996..14178, 14286..14390, 14498..14741, 14844..14989, 15087..15177, 15268..15472, 15566..15785		
GI Descrip.	(AF064707) exhydrolase II [Zea mays]		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57005	Strand	-
Start	13028	End	16901
Name	OJ000150_16.0124.C41.o4.gs	Method	GENSCAN
Start	13214	End	15938
GI	none	Score	.98
Exons	13214..13900, 13996..14178, 14286..14390, 14498..14741, 14844..15082, 15087..15472, 15566..15938		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57005	Strand	-
Start	13028	End	16901
Name	OJ000150_16.0124.C41.o3.gp	Method	AAT/GAP
Start	13624	End	14721
GI	21363_1.R1084	Score	1348
Exons	13624..13898, 13995..14178, 14286..14390, 14498..14721		
GI Descrip.	'4566505/gb AAD23382.1 AF102868_1 1.0e-110 (AF102868) beta-D-glucan exohydrolase isoenzyme ExoI [Hordeum vulgare]'		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57005	Strand	-
Start	13028	End	16901
Name	OJ000150_16.0124.C41.o4.gp	Method	AAT/GAP
Start	15380	End	16901
GI	33744_1.R1084	Score	791
Exons	15380..15472, 15566..15824, 16825..16901		
GI Descrip.	'4731111/gb AAD28356.1 AF064707_1 4.0e-30 (AF064707) exhydrolase II [Zea mays]'		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o3.tm	Method	TBLASTX:Maize
Start	242	End	487
GI	none	Score	143
Exons	242..340, 243..341, 253..342, 256..342, 419..487, 420..467		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o6.tc	Method	TBLASTX:Cress
Start	470	End	742
GI	none	Score	49
Exons	470..598, 516..620, 653..742, 698..742		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-

Start	21676	End	29627
Name	OJ000150_16.0124.C41.o2.tm	Method	TBLASTX:Maize
Start	3314	End	10979
GI	none	Score	65
Exons	3314..3391, 3725..3841, 3726..3836, 3727..3837, 3916..3960, 3918..3953, 3919..3960, 4503..4616, 4504..4617, 4504..4617, 4984..5061, 4986..5054, 4987..5058, 5664..5738, 5674..5745, 5675..5746, 6051..6152, 6052..6150, 6057..6152, 6230..6325, 6231..6410, 6231..6410, 6232..6411, 6990..7205, 6990..7202, 6992..7207, 7959..8258, 7992..8258, 7993..8259, 8036..8263, 8203..8259, 8653..8709, 8654..8710, 9972..10217, 9980..10216, 10318..10452, 10319..10444, 10342..10452, 10553..10591, 10555..10587, 10728..10754, 10740..10820, 10740..10811, 10914..10979		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o2.tc	Method	TBLASTX:Cress
Start	3723	End	10438
GI	none	Score	100
Exons	3723..3818, 4513..4617, 4532..4618, 4972..5055, 5675..5743, 5683..5742, 6082..6150, 6093..6152, 6230..6325, 6231..6410, 6237..6410, 6310..6414, 6973..7203, 6990..7205, 6990..7202, 6992..7204, 7917..8258, 7991..8281, 8045..8260, 8653..8709, 8654..8710, 9993..10127, 9993..10103, 9995..10141, 9995..10126, 10128..10157, 10319..10438, 10342..10419		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o1.ts	Method	TBLASTX:Soybean
Start	13214	End	14557
GI	none	Score	172
Exons	13214..13384, 13230..13385, 13379..13708, 13380..13706, 13644..13901, 13721..13903, 13982..14179, 13996..14178, 14281..14391, 14283..14393, 14498..14557, 14501..14557		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o5.tc	Method	TBLASTX:Cress
Start	13226	End	13451
GI	none	Score	228
Exons	13226..13450, 13227..13451		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o1.tm	Method	TBLASTX:Maize
Start	13229	End	15726
GI	none	Score	462
Exons	13229..13600, 13233..13709, 13622..13903, 13626..13916, 13840..13905, 13995..14105, 13996..14178, 14000..14179, 14281..14391, 14283..14393, 14286..14423, 14498..14725, 14501..14728, 14547..14744, 14837..14911, 14876..14989, 15084..15182, 15085..15183, 15255..15443, 15256..15432,		

15534..15725, 15565..15726

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o4.tc	Method	TBLASTX:Cress
Start	13478	End	13886
GI	none	Score	145
Exons	13478..13705, 13515..13706, 13712..13858, 13713..13835, 13829..13885, 13833..13886		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o1.tw	Method	TBLASTX:Wheat
Start	13712	End	14355
GI	none	Score	219
Exons	13712..13903, 13713..13916, 13984..14178, 14000..14179, 14281..14355, 14283..14354, 14287..14355		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o3.tc	Method	TBLASTX:Cress
Start	14032	End	14617
GI	none	Score	111
Exons	14032..14178, 14036..14179, 14281..14391, 14283..14393, 14498..14617, 14547..14615		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o2.tw	Method	TBLASTX:Wheat
Start	14495	End	14930
GI	none	Score	96
Exons	14495..14725, 14498..14743, 14547..14747, 14835..14930, 14840..14929		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o1.tc	Method	TBLASTX:Cress
Start	14618	End	15722
GI	none	Score	91
Exons	14618..14725, 14664..14744, 14841..14930, 14843..14989, 15084..15182, 15085..15183, 15252..15443, 15256..15372, 15534..15722, 15565..15687		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o2.ts	Method	TBLASTX:Soybean
Start	14841	End	15701
GI	none	Score	80
Exons	14841..14924, 14843..14989, 15084..15185, 15085..15183, 15252..15380, 15268..15372, 15373..15444, 15534..15701, 15535..15687		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o3.tw	Method	TBLASTX:Wheat
Start	14933	End	15183
GI	none	Score	109
Exons	14933..14992, 15090..15182, 15091..15183		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o4.np	Method	AAT/NAP
Start	21676	End	29627
GI	5042454	Score	189
Exons	21676..21729, 29170..29340, 29527..29627		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	27600	Seq. ID	OJ000150_16.0124.C41
Gene No.	57006	Strand	-
Start	21676	End	29627
Name	OJ000150_16.0124.C41.o6.gs	Method	GENSCAN
Start	28027	End	29256
GI	none	Score	.87
Exons	28027..28254, 28761..28933, 29166..29256		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57007	Strand	+
Start	222	End	337
Name	OJ000150_16.0124.C42.o1.gs	Method	GENSCAN
Start	222	End	337
GI	none	Score	.7
Exons	222..337		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57008	Strand	+
Start	718	End	3970
Name	OJ000150_16.0124.C42.o1.np	Method	AAT/NAP
Start	718	End	3970
GI	5803259	Score	5119
Exons	718..1979, 2071..3970		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57008	Strand	+
Start	718	End	3970
Name	OJ000150_16.0124.C42.o2.gs	Method	GENSCAN
Start	718	End	3946
GI	none	Score	.99
Exons	718..1979, 2071..3946		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57009	Strand	-
Start	3981	End	4441
Name	OJ000150_16.0124.C42.o1.gp	Method	AAT/GAP
Start	3981	End	4441
GI	2428323	Score	849

Exons 3981..4441  
 GI Descrip. 5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o2.np	Method	AAT/NAP
Start	4604	End	10248
GI	6498441	Score	6831
Exons	4604..4885, 4979..6376, 6548..6930, 7123..7463, 7638..7772, 7956..8329, 8393..8856, 9187..10248		

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o5.tm	Method	TBLASTX:Maize
Start	4604	End	4744
GI	none	Score	117
Exons	4604..4744, 4605..4739		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o6.tw	Method	TBLASTX:Wheat
Start	4613	End	5215
GI	none	Score	81
Exons	4613..4738, 4617..4739, 4919..5215, 4932..5075, 5112..5210, 5140..5211		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o4.tw	Method	TBLASTX:Wheat
Start	5216	End	9842
GI	none	Score	169
Exons	5216..5596, 5247..5495, 5255..5500, 5541..5597, 9762..9842		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o2.tm	Method	TBLASTX:Maize
Start	5411	End	5734
GI	none	Score	204
Exons	5411..5734, 5424..5705		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o8.tw	Method	TBLASTX:Wheat
Start	5927	End	6187
GI	none	Score	186
Exons	5927..6187		



Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o5.tw	Method	TBLASTX:Wheat
Start	6242	End	6676
GI	none	Score	89
Exons	6242..6391, 6243..6380, 6245..6382, 6425..6676, 6435..6611, 6479..6676		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o3.np	Method	AAT/NAP
Start	7278	End	10901
GI	5042454	Score	2132
Exons	7278..7318, 9359..10771, 10828..10901		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o1.ts	Method	TBLASTX:Soybean
Start	7301	End	7672
GI	none	Score	90
Exons	7301..7672, 7512..7655		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o2.tw	Method	TBLASTX:Wheat
Start	7331	End	7751
GI	none	Score	313
Exons	7331..7750, 7338..7751		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o3.tm	Method	TBLASTX:Maize
Start	7424	End	7808
GI	none	Score	230
Exons	7424..7807, 7443..7808		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o1.tm	Method	TBLASTX:Maize
Start	7835	End	8191
GI	none	Score	113
Exons	7835..8152, 7835..8191, 7845..8156		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o1.tw	Method	TBLASTX:Wheat
Start	7859	End	8322
GI	none	Score	244
Exons	7859..8320, 7865..8320, 7866..8321, 7879..8322		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o2.ts	Method	TBLASTX:Soybean
Start	7916	End	8281
GI	none	Score	117
Exons	7916..8050, 8057..8281		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o3.tw	Method	TBLASTX:Wheat
Start	8486	End	8972
GI	none	Score	74
Exons	8486..8971, 8513..8707, 8517..8777, 8799..8972		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o4.tm	Method	TBLASTX:Maize
Start	9809	End	10094
GI	none	Score	109
Exons	9809..10057, 9810..10094		

Seq. No.	27601	Seq. ID	OJ000150_16.0124.C42
Gene No.	57010	Strand	-
Start	4604	End	10901
Name	OJ000150_16.0124.C42.o7.tw	Method	TBLASTX:Wheat
Start	9843	End	10099
GI	none	Score	75
Exons	9843..9980, 9845..9964, 9939..10040, 9947..10045, 10052..10099		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57011	Strand	+
Start	2194	End	2684
Name	OJ000150_16.0124.C43.o1.gp	Method	AAT/GAP
Start	2194	End	2684
GI	15671_1.R1084	Score	934
Exons	2194..2684		
GI Descrip.	'1203832 5.0e-35 (U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] >gi_1588407_prf_2208395A beta-D-glucan exohydrolase [Hordeum vulgare]'		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57012	Strand	-
Start	2446	End	5290
Name	OJ000150_16.0124.C43.o3.tc	Method	TBLASTX:Cress
Start	2401	End	2682
GI	none	Score	231
Exons	2401..2682, 2450..2653, 2515..2676		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57012	Strand	-
Start	2446	End	5290
Name	OJ000150_16.0124.C43.o2.gs	Method	GENSCAN
Start	2446	End	5136

GI none Score 94  
Exons 2446..2930, 3023..3227, 3315..3497, 3842..3946, 4053..4296,  
4436..4578, 4696..4786, 4997..5136

Seq. No. 27602 Seq. ID OJ000150\_16.0124.C43  
Gene No. 57012 Strand -  
Start 2446 End 5290  
Name OJ000150\_16.0124.C43.o1.ts Method TBLASTX:Soybean  
Start 2447 End 4113  
GI none Score 172  
Exons 2447..2617, 2464..2616, 2611..2934, 2612..2932, 2982..3206,  
3011..3211, 3019..3228, 3021..3227, 3295..3414, 3303..3497,  
3303..3497, 3404..3499, 3837..3947, 3839..3949, 3847..3948,  
4053..4109, 4053..4112, 4054..4113

Seq. No. 27602 Seq. ID OJ000150\_16.0124.C43  
Gene No. 57012 Strand -  
Start 2446 End 5290  
Name OJ000150\_16.0124.C43.o1.np Method AAT/NAP  
Start 2452 End 5290  
GI 1203832 Score 2351  
Exons 2452..2930, 3023..3227, 3315..3497, 3842..3946, 4053..4296,  
4436..4578, 4696..4786, 4997..5290

GI Descrip. (U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum  
vulgare] gi|1588407|prf|2208395A beta-D-glucan exohydrolase  
[Hordeum vulgare]

Seq. No. 27602 Seq. ID OJ000150\_16.0124.C43  
Gene No. 57012 Strand -  
Start 2446 End 5290  
Name OJ000150\_16.0124.C43.o1.tm Method TBLASTX:Maize  
Start 2461 End 5202  
GI none Score 515  
Exons 2461..2886, 2465..2854, 2815..2931, 2845..2934, 2846..2935,  
3031..3228, 3031..3222, 3036..3230, 3036..3227, 3303..3497,  
3303..3497, 3304..3498, 3314..3499, 3839..3949, 3842..3946,  
3844..3948, 4046..4297, 4052..4297, 4053..4298, 4054..4299,  
4428..4448, 4436..4579, 4437..4580, 4438..4578, 4688..4789,  
4693..4800, 4993..5124, 4995..5135, 4996..5202, 4997..5137

Seq. No. 27602 Seq. ID OJ000150\_16.0124.C43  
Gene No. 57012 Strand -  
Start 2446 End 5290  
Name OJ000150\_16.0124.C43.o2.gp Method AAT/GAP  
Start 2689 End 5203  
GI 16311\_1.R1084 Score 2670  
Exons 2689..2930, 3023..3227, 3315..3497, 3842..3946, 4053..4296,  
4436..4578, 4696..4786, 4997..5203

GI Descrip. '1203832 0.0e+00 (U46003) beta-D-glucan exohydrolase, isoenzyme  
ExoII [Hordeum vulgare] >gi\_1588407\_prf\_2208395A beta-D-glucan  
exohydrolase [Hordeum vulgare]'

Seq. No. 27602 Seq. ID OJ000150\_16.0124.C43  
Gene No. 57012 Strand -  
Start 2446 End 5290  
Name OJ000150\_16.0124.C43.o2.tc Method TBLASTX:Cress  
Start 2734 End 3245

GI	none	Score	136
Exons	2734..2931, 2747..2932, 3019..3153, 3021..3185, 3159..3245, 3166..3213		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57012	Strand	-
Start	2446	End	5290
Name	OJ000150_16.0124.C43.o1.tw	Method	TBLASTX:Wheat
Start	3033	End	3911
GI	none	Score	282
Exons	3033..3227, 3037..3228, 3304..3414, 3311..3496, 3315..3497, 3315..3497, 3317..3520, 3839..3910, 3843..3911, 3844..3903		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57012	Strand	-
Start	2446	End	5290
Name	OJ000150_16.0124.C43.o1.tc	Method	TBLASTX:Cress
Start	3354	End	4293
GI	none	Score	99
Exons	3354..3497, 3837..3947, 3839..3949, 3844..3948, 4053..4292, 4053..4292, 4054..4293		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57012	Strand	-
Start	2446	End	5290
Name	OJ000150_16.0124.C43.o2.tw	Method	TBLASTX:Wheat
Start	4033	End	4518
GI	none	Score	212
Exons	4033..4299, 4050..4310, 4435..4458, 4465..4518		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57012	Strand	-
Start	2446	End	5290
Name	OJ000150_16.0124.C43.o2.ts	Method	TBLASTX:Soybean
Start	4465	End	5058
GI	none	Score	107
Exons	4465..4578, 4472..4579, 4478..4582, 4688..4795, 4693..4800, 4993..5055, 4996..5058, 4997..5056		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57012	Strand	-
Start	2446	End	5290
Name	OJ000150_16.0124.C43.o4.tc	Method	TBLASTX:Cress
Start	4471	End	5202
GI	none	Score	92
Exons	4471..4578, 4472..4579, 4688..4789, 4690..4806, 4996..5202, 4997..5101		

Seq. No.	27602	Seq. ID	OJ000150_16.0124.C43
Gene No.	57012	Strand	-
Start	2446	End	5290
Name	OJ000150_16.0124.C43.o3.tw	Method	TBLASTX:Wheat
Start	4519	End	4789
GI	none	Score	65
Exons	4519..4581, 4529..4579, 4699..4788, 4706..4789		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
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Gene No.	57013	Strand	+
Start	2435	End	9414
Name	OJ000150_16.0124.C44.o2.gs	Method	GENSCAN
Start	2435	End	9414
GI	none	Score	.51
Exons	2435..2524, 2818..2963, 3130..3252, 5959..6008, 6456..6658, 6834..7121, 7365..7419, 9029..9170, 9237..9414		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57014	Strand	+
Start	16594	End	17245
Name	OJ000150_16.0124.C44.o2.gp	Method	AAT/GAP
Start	16594	End	17245
GI	45587_1.R1084	Score	1099
Exons	16594..17245		
GI Descrip.	'1203832 3.0e-30 (U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] >gi_1588407_prf__2208395A beta-D-glucan exohydrolase [Hordeum vulgare]'		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57015	Strand	+
Start	20366	End	24396
Name	OJ000150_16.0124.C44.o4.gp	Method	AAT/GAP
Start	20366	End	24396
GI	LIB3477-003-P1-K1-E9	Score	135
Exons	20366..20416, 24342..24396		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57016	Strand	+
Start	29875	End	31300
Name	OJ000150_16.0124.C44.o5.np	Method	AAT/NAP
Start	29875	End	31300
GI	5852084	Score	70
Exons	29875..29909, 31218..31300		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57017	Strand	+
Start	32330	End	38807
Name	OJ000150_16.0124.C44.o8.gs	Method	GENSCAN
Start	32330	End	38807
GI	none	Score	.83
Exons	32330..32548, 32651..32805, 32855..32993, 33097..33327, 33590..33685, 33808..33996, 34588..34758, 35338..35532, 36267..36338, 36439..36508, 36600..36748, 37302..37361, 37530..37682, 37775..37885, 38319..38807		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57017	Strand	+
Start	32330	End	38807
Name	OJ000150_16.0124.C44.o6.np	Method	AAT/NAP
Start	33611	End	38762
GI	6598524	Score	2591
Exons	33611..33685, 33808..33996, 34126..34285, 34375..34505,		

34588..34752, 34851..35123, 35338..35532, 36135..36338,  
 36439..36508, 36600..36748, 36907..37215, 37302..37361,  
 37530..37682, 37775..37885, 38319..38762

GI Descrip. (AC006200) putative ATP-dependent RNA helicase A [Arabidopsis thaliana]

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57018	Strand	+
Start	40135	End	44437
Name	OJ000150_16.0124.C44.o7.gp	Method	AAT/GAP
Start	40089	End	42569
GI	18847_1.R1084	Score	1495
Exons	40089..40269, 41141..41223, 41310..41463, 41637..41823, 42229..42355, 42465..42569		

GI Descrip. '4581520/emb|CAB40177.1| 5.0e-38 (AL049559) hypothetical protein [Schizosaccharomyces pombe]'

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57018	Strand	+
Start	40135	End	44437
Name	OJ000150_16.0124.C44.o7.np	Method	AAT/NAP
Start	40120	End	44136
GI	2245000	Score	614
Exons	40120..40278, 41153..41223, 41310..41463, 41705..41823, 42950..43174, 43527..43608, 43997..44136		

GI Descrip. (Z97341) LET1 like protein [Arabidopsis thaliana]

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57018	Strand	+
Start	40135	End	44437
Name	OJ000150_16.0124.C44.o9.gs	Method	GENSCAN
Start	40135	End	44139
GI	none	Score	.79
Exons	40135..40269, 40314..40402, 41310..41463, 41667..41823, 42229..42355, 42465..42615, 42701..42750, 43003..43174, 43280..43406, 43504..43595, 43987..44139		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57018	Strand	+
Start	40135	End	44437
Name	OJ000150_16.0124.C44.o8.gp	Method	AAT/GAP
Start	43518	End	44437
GI	18064_1.R1084	Score	976
Exons	43518..43595, 43987..44437		

GI Descrip. '2245000/emb|CAB10420.1| 1.0e-20 (Z97341) LET1 like protein [Arabidopsis thaliana]'

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57019	Strand	+
Start	46044	End	46900
Name	OJ000150_16.0124.C44.o11.gs	Method	GENSCAN
Start	46044	End	46900
GI	none	Score	.87
Exons	46044..46567, 46666..46900		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57019	Strand	+

Start	46044	End	46900
Name	OJ000150_16.0124.C44.o8.np	Method	AAT/NAP
Start	46167	End	46897
GI	5031275	Score	558
Exons	46167..46567, 46666..46897		
GI Descrip.	(AF139496) unknown [Prunus armeniaca]		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57020	Strand	-
Start	1	End	1367
Name	OJ000150_16.0124.C44.o1.np	Method	AAT/NAP
Start	1	End	690
GI	1203832	Score	579
Exons	1..376, 474..690		
GI Descrip.	(U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] gi 1588407 prf  2208395A beta-D-glucan exohydrolase [Hordeum vulgare]		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57020	Strand	-
Start	1	End	1367
Name	OJ000150_16.0124.C44.o1.gp	Method	AAT/GAP
Start	172	End	1367
GI	16311_1.R1084	Score	1327
Exons	172..376, 474..741, 1146..1367		
GI Descrip.	'1203832 0.0e+00 (U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] >gi_1588407_prf__2208395A beta-D-glucan exohydrolase [Hordeum vulgare]'		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57020	Strand	-
Start	1	End	1367
Name	OJ000150_16.0124.C44.o1.gs	Method	GENSCAN
Start	172	End	690
GI	none	Score	.82
Exons	172..376, 474..690		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57021	Strand	-
Start	10701	End	10850
Name	OJ000150_16.0124.C44.o3.gs	Method	GENSCAN
Start	10701	End	10850
GI	none	Score	.42
Exons	10701..10850		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57022	Strand	-
Start	14320	End	16485
Name	OJ000150_16.0124.C44.o4.gs	Method	GENSCAN
Start	14320	End	16485
GI	none	Score	.85
Exons	14320..14344, 16403..16485		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57023	Strand	-
Start	16739	End	19035
Name	OJ000150_16.0124.C44.o5.gs	Method	GENSCAN

Start	16739	End	18972
GI	none	Score	.87
Exons	16739..17298, 17309..17801, 17867..18259, 18354..18649, 18738..18972		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57023	Strand	-
Start	16739	End	19035
Name	OJ000150_16.0124.C44.o2.np	Method	AAT/NAP
Start	16751	End	18954
GI	1203832	Score	2151
Exons	16751..17235, 17309..17801, 17867..18259, 18354..18649, 18738..18954		
GI Descrip.	(U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] gi 1588407 prf  2208395A beta-D-glucan exohydrolase [Hordeum vulgare]		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57023	Strand	-
Start	16739	End	19035
Name	OJ000150_16.0124.C44.o3.gp	Method	AAT/GAP
Start	18405	End	19035
GI	43874_1.R1084	Score	1059
Exons	18405..18649, 18738..19035		
GI Descrip.	'1203832 9.0e-42 (U46003) beta-D-glucan exohydrolase, isoenzyme ExoII [Hordeum vulgare] >gi_1588407_prf__2208395A beta-D-glucan exohydrolase [Hordeum vulgare]'		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57024	Strand	-
Start	22775	End	24287
Name	OJ000150_16.0124.C44.o6.gs	Method	GENSCAN
Start	22775	End	24269
GI	none	Score	.53
Exons	22775..23254, 23305..23598, 24144..24269		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57024	Strand	-
Start	22775	End	24287
Name	OJ000150_16.0124.C44.o3.np	Method	AAT/NAP
Start	22782	End	24287
GI	6598436	Score	575
Exons	22782..23061, 23093..23939, 24009..24287		
GI Descrip.	(AC004683) putative ammonium transporter [Arabidopsis thaliana]		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57025	Strand	-
Start	25058	End	30392
Name	OJ000150_16.0124.C44.o4.np	Method	AAT/NAP
Start	25058	End	29219
GI	2245131	Score	376
Exons	25058..25116, 26700..26827, 27057..27394, 27832..27924, 28901..28979, 29089..29219		
GI Descrip.	(Z97344) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57025	Strand	-



Start	25058	End	30392
Name	OJ000150_16.0124.C44.o5.gp	Method	AAT/GAP
Start	25570	End	26737
GI	LIB3431-010-P1-N1-A4	Score	608
Exons	25570..25869, 26704..26737		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57025	Strand	-
Start	25058	End	30392
Name	OJ000150_16.0124.C44.o7.gs	Method	GENSCAN
Start	26362	End	30392
GI	none	Score	.85
Exons	26362..26394, 26704..26827, 27057..27394, 27850..27924, 28901..28979, 29116..29234, 29330..29571, 29607..29766, 30366..30392		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57025	Strand	-
Start	25058	End	30392
Name	OJ000150_16.0124.C44.o6.gp	Method	AAT/GAP
Start	27850	End	29544
GI	54499_1.R1084	Score	869
Exons	27850..27924, 28901..28979, 29116..29234, 29330..29544		
GI Descrip.	'2245131/emb CAB10552.1  1.0e-09 (Z97344) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57026	Strand	-
Start	44926	End	45701
Name	OJ000150_16.0124.C44.o10.gs	Method	GENSCAN
Start	44926	End	45650
GI	none	Score	.99
Exons	44926..45105, 45214..45477, 45498..45548, 45579..45650		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57026	Strand	-
Start	44926	End	45701
Name	OJ000150_16.0124.C44.o9.gp	Method	AAT/GAP
Start	45192	End	45701
GI	2428175	Score	675
Exons	45192..45477, 45579..45701		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o3.ts	Method	TBLASTX:Soybean
Start	162	End	18892
GI	none	Score	94
Exons	162..305, 163..312, 171..362, 357..377, 472..672, 473..661, 18363..18620, 18364..18651, 18724..18888, 18734..18892		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o1.tm	Method	TBLASTX:Maize

Start	168	End	18892
GI	none	Score	132
Exons	168..299, 170..310, 171..377, 172..312, 471..692, 472..696, 473..697, 16736..17059, 16760..16969, 17030..17140, 17043..17108, 17144..17248, 17166..17240, 17320..17511, 17322..17804, 17403..17708, 17566..17802, 17867..18133, 17868..18134, 17996..18148, 18146..18184, 18147..18170, 18177..18260, 18182..18268, 18209..18283, 18336..18620, 18352..18660, 18724..18888, 18734..18892		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o1.tc	Method	TBLASTX:Cress
Start	171	End	18876
GI	none	Score	111
Exons	171..377, 172..276, 472..612, 473..595, 17990..18184, 17991..18176, 18182..18268, 18231..18266, 18336..18620, 18352..18669, 18724..18876, 18734..18859		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o6.tc	Method	TBLASTX:Cress
Start	16757	End	16952
GI	none	Score	214
Exons	16757..16945, 16764..16952		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o1.ts	Method	TBLASTX:Soybean
Start	16763	End	17926
GI	none	Score	168
Exons	16763..16915, 16764..16916, 16781..16927, 16910..16969, 16911..16967, 16967..17035, 17033..17134, 17043..17093, 17114..17239, 17166..17246, 17305..17811, 17307..17804, 17867..17926, 17867..17926		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o9.tc	Method	TBLASTX:Cress
Start	17033	End	17498
GI	none	Score	62
Exons	17033..17140, 17046..17108, 17129..17236, 17166..17237, 17305..17439, 17307..17480, 17454..17498		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o1.tw	Method	TBLASTX:Wheat
Start	17319	End	17765
GI	none	Score	184
Exons	17319..17765, 17323..17511, 17403..17705, 17563..17712		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
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Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o3.tc	Method	TBLASTX:Cress
Start	17550	End	17986
GI	none	Score	137
Exons	17550..17804, 17563..17811, 17867..17986, 17868..17984		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o2.tw	Method	TBLASTX:Wheat
Start	17850	End	18178
GI	none	Score	190
Exons	17850..18104, 17864..18103, 18113..18178, 18114..18170		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o10.ts	Method	TBLASTX:Soybean
Start	18011	End	18269
GI	none	Score	138
Exons	18011..18178, 18027..18191, 18185..18268, 18234..18269		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o5.tw	Method	TBLASTX:Wheat
Start	18184	End	18467
GI	none	Score	81
Exons	18184..18261, 18185..18262, 18185..18262, 18357..18467, 18361..18456		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o14.tc	Method	TBLASTX:Cress
Start	23311	End	23572
GI	none	Score	144
Exons	23311..23496, 23312..23494, 23546..23572, 23548..23571		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o14.tm	Method	TBLASTX:Maize
Start	23311	End	23583
GI	none	Score	151
Exons	23311..23496, 23312..23494, 23548..23583, 23553..23582		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o18.ts	Method	TBLASTX:Soybean
Start	23354	End	23599
GI	none	Score	131
Exons	23354..23497, 23356..23496, 23548..23598, 23549..23599		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44

Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o5.ts	Method	TBLASTX:Soybean
Start	26704	End	29226
GI	none	Score	68
Exons	26704..26835, 26760..26825, 27054..27323, 27056..27388, 27057..27425, 27118..27405, 27871..27942, 28901..28960, 28902..28958, 29121..29216, 29122..29226		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o5.tm	Method	TBLASTX:Maize
Start	26731	End	28964
GI	none	Score	135
Exons	26731..26835, 26733..26828, 27056..27370, 27057..27371, 27715..27735, 27850..27924, 27854..27934, 27854..27925, 28901..28963, 28904..28963, 28911..28964		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o11.tc	Method	TBLASTX:Cress
Start	26743	End	29220
GI	none	Score	135
Exons	26743..26829, 27047..27361, 27069..27362, 29118..29219, 29122..29220		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o7.tw	Method	TBLASTX:Wheat
Start	27038	End	27260
GI	none	Score	143
Exons	27038..27253, 27039..27260		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o13.ts	Method	TBLASTX:Soybean
Start	32657	End	32996
GI	none	Score	139
Exons	32657..32803, 32665..32727, 32904..32996		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o11.tm	Method	TBLASTX:Maize
Start	33781	End	34505
GI	none	Score	265
Exons	33781..33999, 33783..34022, 34125..34283, 34126..34302, 34373..34504, 34437..34505		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o4.tc	Method	TBLASTX:Cress

Start	33798	End	34441
GI	none	Score	99
Exons	33798..34013, 33807..33980, 33808..33999, 33821..34045, 34094..34186, 34122..34289, 34125..34283, 34126..34302, 34223..34288, 34373..34441		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o13.tc	Method	TBLASTX:Cress
Start	34443	End	37197
GI	none	Score	76
Exons	34443..34505, 34588..34632, 34917..35123, 34919..35068, 35334..35525, 35335..35532, 36949..37197		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o9.tm	Method	TBLASTX:Maize
Start	34594	End	35045
GI	none	Score	158
Exons	34594..34731, 34845..35045, 34850..35038		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o6.ts	Method	TBLASTX:Soybean
Start	34842	End	35137
GI	none	Score	341
Exons	34842..35123, 34845..35123, 34892..35137		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o16.ts	Method	TBLASTX:Soybean
Start	35334	End	35469
GI	none	Score	222
Exons	35334..35465, 35335..35469		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o15.tm	Method	TBLASTX:Maize
Start	35479	End	36257
GI	none	Score	95
Exons	35479..35532, 36131..36253, 36132..36257		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o14.ts	Method	TBLASTX:Soybean
Start	36131	End	36268
GI	none	Score	224
Exons	36131..36268, 36132..36266		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-

Start	47332	End	50676
Name	OJ000150_16.0124.C44.o5.tc	Method	TBLASTX:Cress
Start	36134	End	36715
GI	none	Score	267
Exons	36134..36340, 36135..36302, 36433..36510, 36438..36509, 36596..36715, 36598..36708, 36599..36709		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o6.tm	Method	TBLASTX:Maize
Start	36257	End	37616
GI	none	Score	121
Exons	36257..36340, 36257..36340, 36438..36509, 36439..36510, 36596..36751, 36598..36747, 36599..36748, 36768..36815, 36904..37023, 36907..37038, 36909..37034, 36962..37213, 37003..37215, 37023..37214, 37293..37367, 37294..37359, 37302..37361, 37521..37616, 37532..37615		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o8.ts	Method	TBLASTX:Soybean
Start	36269	End	36760
GI	none	Score	46
Exons	36269..36340, 36269..36340, 36438..36557, 36439..36510, 36596..36742, 36598..36744, 36601..36744, 36614..36760		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o6.tw	Method	TBLASTX:Wheat
Start	36438	End	36751
GI	none	Score	80
Exons	36438..36509, 36439..36510, 36596..36694, 36598..36690, 36701..36751		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o12.ts	Method	TBLASTX:Soybean
Start	36873	End	37158
GI	none	Score	261
Exons	36873..37085, 36904..37158, 36907..37158		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o17.ts	Method	TBLASTX:Soybean
Start	37521	End	37888
GI	none	Score	72
Exons	37521..37580, 37529..37579, 37577..37675, 37578..37676, 37778..37888		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676

Name	OJ000150_16.0124.C44.o13.tm	Method	TBLASTX:Maize
Start	37616	End	37903
GI	none	Score	97
Exons	37616..37681, 37617..37682, 37622..37684, 37767..37883, 37775..37903		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o3.tm	Method	TBLASTX:Maize
Start	38323	End	38699
GI	none	Score	181
Exons	38323..38424, 38340..38462, 38340..38462, 38448..38699, 38448..38534, 38492..38680, 38527..38694		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o9.ts	Method	TBLASTX:Soybean
Start	41179	End	43156
GI	none	Score	62
Exons	41179..41223, 41183..41221, 41307..41453, 41308..41472, 41308..41478, 41633..41746, 41634..41831, 42227..42313, 42228..42353, 42466..42552, 42466..42543, 42562..42615, 43004..43156		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o12.tm	Method	TBLASTX:Maize
Start	41376	End	42290
GI	none	Score	99
Exons	41376..41465, 41376..41471, 41380..41472, 41610..41825, 41631..41831, 41636..41830, 42227..42289, 42228..42290		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o8.tc	Method	TBLASTX:Cress
Start	41633	End	42540
GI	none	Score	206
Exons	41633..41752, 41634..41831, 42227..42328, 42228..42356, 42463..42540, 42463..42540		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o16.tm	Method	TBLASTX:Maize
Start	42327	End	42593
GI	none	Score	36
Exons	42327..42356, 42463..42591, 42474..42593, 42478..42582		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o8.tm	Method	TBLASTX:Maize
Start	42897	End	43614

GI	none	Score	169
Exons	42897..43175, 42946..43176, 42947..43180, 43256..43411, 43268..43408, 43312..43413, 43476..43598, 43481..43594, 43498..43614		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o19.ts	Method	TBLASTX:Soybean
Start	43476	End	44197
GI	none	Score	129
Exons	43476..43598, 43481..43597, 43978..44139, 43986..44138, 44156..44197		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o12.tc	Method	TBLASTX:Cress
Start	45241	End	45538
GI	none	Score	89
Exons	45241..45483, 45242..45538		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o15.ts	Method	TBLASTX:Soybean
Start	45250	End	45484
GI	none	Score	119
Exons	45250..45333, 45323..45484, 45328..45483		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o7.tm	Method	TBLASTX:Maize
Start	46172	End	46882
GI	none	Score	129
Exons	46172..46294, 46173..46328, 46389..46526, 46409..46525, 46619..46882, 46669..46728, 46673..46858, 46771..46878		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o11.ts	Method	TBLASTX:Soybean
Start	46176	End	46882
GI	none	Score	145
Exons	46176..46328, 46187..46300, 46389..46532, 46409..46525, 46669..46878, 46670..46882		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o7.tc	Method	TBLASTX:Cress
Start	46176	End	46903
GI	none	Score	135
Exons	46176..46328, 46187..46297, 46389..46532, 46406..46525, 46639..46743, 46669..46719, 46670..46903, 46771..46878		



Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o3.tw	Method	TBLASTX:Wheat
Start	46401	End	46900
GI	none	Score	151
Exons	46401..46532, 46415..46531, 46625..46900, 46664..46882		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o10.gp	Method	AAT/GAP
Start	47332	End	47943
GI	17156_1.R1084	Score	1183
Exons	47332..47943		
GI Descrip.	'4507221/ref NP_003129.1 pSRPK2  2.0e-13 SFRS protein kinase 2 >gi_1857944 (U88666) serine kinase SRPK2 [Homo sapiens]'		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o12.gs	Method	GENSCAN
Start	47636	End	50675
GI	none	Score	.47
Exons	47636..48079, 48160..48266, 50036..50675		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o4.tm	Method	TBLASTX:Maize
Start	47639	End	49817
GI	none	Score	34
Exons	47639..47668, 47666..47839, 47670..47795, 47759..48079, 47829..48080, 48157..48210, 48162..48224, 49758..49781, 49779..49817		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o4.ts	Method	TBLASTX:Soybean
Start	47711	End	49799
GI	none	Score	72
Exons	47711..47788, 47712..47810, 47831..48079, 47832..48080, 47833..48081, 47844..48080, 48157..48210, 48164..48208, 49751..49795, 49758..49799		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o9.np	Method	AAT/NAP
Start	47789	End	50675
GI	3367568	Score	944
Exons	47789..48079, 48160..48207, 49758..49982, 50082..50675		
GI Descrip.	(AL031135) protein kinase - like protein [Arabidopsis thaliana]		
Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-

Start	47332	End	50676
Name	OJ000150_16.0124.C44.o2.tc	Method	TBLASTX:Cress
Start	48026	End	50002
GI	none	Score	64
Exons	48026..48079, 48030..48080, 48157..48210, 48161..48208, 49748..49846, 49757..49846, 49758..49985, 49801..49986, 49883..50002		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o7.ts	Method	TBLASTX:Soybean
Start	49800	End	49980
GI	none	Score	230
Exons	49800..49979, 49801..49980		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o2.tm	Method	TBLASTX:Maize
Start	49851	End	50475
GI	none	Score	182
Exons	49851..49994, 49851..49994, 49852..49995, 50055..50474, 50058..50474, 50083..50475		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o12.gp	Method	AAT/GAP
Start	50096	End	50457
GI	uC-osf1M202075h07b1	Score	681
Exons	50096..50457		
GI Descrip.	'3367568/emb CAA20020  9.0e-15 (AL031135) protein kinase - like protein [Arabidopsis thaliana]'		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o10.tc	Method	TBLASTX:Cress
Start	50260	End	50456
GI	none	Score	141
Exons	50260..50454, 50268..50456		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o4.tw	Method	TBLASTX:Wheat
Start	50283	End	50484
GI	none	Score	133
Exons	50283..50483, 50284..50484		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o2.ts	Method	TBLASTX:Soybean
Start	50302	End	50672
GI	none	Score	366

Exons 50302..50670, 50304..50672

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o10.tm	Method	TBLASTX:Maize
Start	50486	End	50676
GI	none	Score	77
Exons	50486..50560, 50496..50675, 50496..50675, 50500..50676		

Seq. No.	27603	Seq. ID	OJ000150_16.0124.C44
Gene No.	57027	Strand	-
Start	47332	End	50676
Name	OJ000150_16.0124.C44.o13.gp	Method	AAT/GAP
Start	50571	End	50675
GI	uC-osrocyp005g06b1	Score	191
Exons	50571..50675		
GI Descrip.	'280523/pir  S28282 1.0e-24 hypothetical protein B0464.5 - Caenorhabditis elegans'		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57028	Strand	+
Start	11312	End	11824
Name	OJ000150_16.0124.C45.o3.gs	Method	GENSCAN
Start	11312	End	11824
GI	none	Score	.85
Exons	11312..11824		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57029	Strand	+
Start	19412	End	22260
Name	OJ000150_16.0124.C45.o6.gs	Method	GENSCAN
Start	19412	End	20154
GI	none	Score	.49
Exons	19412..19419, 20025..20154		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57029	Strand	+
Start	19412	End	22260
Name	OJ000150_16.0124.C45.o1.gp	Method	AAT/GAP
Start	19471	End	22260
GI	64_1.R1084	Score	1062
Exons	19471..19491, 21453..21521, 21573..22056, 22180..22260		
GI Descrip.	'4126687/dbj BAA36695  0.0e+00 (AB016501) glutelin [Oryza sativa]'		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57030	Strand	-
Start	7948	End	11127
Name	OJ000150_16.0124.C45.o1.np	Method	AAT/NAP
Start	7948	End	11127
GI	4585982	Score	619
Exons	7948..8055, 9177..9215, 9318..9568, 10214..10277, 10910..11127		
GI Descrip.	(AC005287) Unknown protein [Arabidopsis thaliana]		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57030	Strand	-

Start	7948	End	11127
Name	OJ000150_16.0124.C45.o2.gs	Method	GENSCAN
Start	9068	End	11026
GI	none	Score	.86
Exons	9068..9088, 9177..9215, 9318..9568, 10214..10277, 10910..11026		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57031	Strand	-
Start	13990	End	14805
Name	OJ000150_16.0124.C45.o4.gs	Method	GENSCAN
Start	13990	End	14793
GI	none	Score	.86
Exons	13990..14793		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57031	Strand	-
Start	13990	End	14805
Name	OJ000150_16.0124.C45.o2.np	Method	AAT/NAP
Start	13993	End	14805
GI	6223643	Score	692
Exons	13993..14805		
GI Descrip.	(AC011698) putative short-chain type dehydrogenase/reductase [Arabidopsis thaliana]		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57032	Strand	-
Start	15498	End	15819
Name	OJ000150_16.0124.C45.o5.gs	Method	GENSCAN
Start	15498	End	15819
GI	none	Score	.99
Exons	15498..15565, 15666..15819		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o4.tm	Method	TBLASTX:Maize
Start	5347	End	5736
GI	none	Score	358
Exons	5347..5598, 5370..5597, 5641..5736, 5646..5696		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o5.ts	Method	TBLASTX:Soybean
Start	5347	End	5568
GI	none	Score	235
Exons	5347..5568, 5370..5507		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o6.tm	Method	TBLASTX:Maize
Start	6058	End	6701
GI	none	Score	69
Exons	6058..6102, 6103..6168, 6489..6692, 6500..6652, 6648..6701, 6650..6700		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o5.tm	Method	TBLASTX:Maize
Start	7939	End	11561
GI	none	Score	181
Exons	7939..8064, 7941..8072, 7943..8050, 9177..9233, 9182..9217, 9312..9569, 9315..9569, 9319..9588, 10215..10277, 10218..10277, 10907..11017, 10911..11018, 11007..11108, 11009..11101, 11340..11411, 11343..11420, 11492..11554, 11502..11561, 11510..11560		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o6.ts	Method	TBLASTX:Soybean
Start	7967	End	9588
GI	none	Score	99
Exons	7967..8050, 7969..8064, 9177..9233, 9179..9199, 9181..9207, 9312..9410, 9318..9401, 9331..9411, 9378..9461, 9465..9569, 9475..9588		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o2.tm	Method	TBLASTX:Maize
Start	13987	End	14469
GI	none	Score	460
Exons	13987..14469, 13988..14398		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o3.tc	Method	TBLASTX:Cress
Start	14066	End	14703
GI	none	Score	124
Exons	14066..14503, 14074..14574, 14617..14703		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o3.ts	Method	TBLASTX:Soybean
Start	14141	End	14703
GI	none	Score	44
Exons	14141..14197, 14173..14241, 14173..14580, 14347..14403, 14372..14491, 14614..14703		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o7.gs	Method	GENSCAN
Start	21893	End	33708
GI	none	Score	.68
Exons	21893..22089, 22144..22368, 22604..22889, 22969..23556, 23808..24353, 24579..24646, 24729..24888, 24996..25118, 27562..27637, 28461..28604, 28750..28944, 29880..29962, 30093..30173, 30256..30312, 30534..30633, 30776..30846,		

30919..31065, 31144..31350, 31591..31687, 31801..31958,  
 32087..32152, 32420..32534, 32621..32722, 32809..32948,  
 33045..33260, 33402..33500, 33589..33708

Seq. No. 27604 Seq. ID OJ000150\_16.0124.C45  
 Gene No. 57033 Strand -  
 Start 21893 End 34090  
 Name OJ000150\_16.0124.C45.o3.np Method AAT/NAP  
 Start 22160 End 25097  
 GI 4204265 Score 1008  
 Exons 22160..22324, 22677..22889, 22969..23541, 23775..23995,  
 24050..24330, 24683..24853, 24970..25097  
 GI Descrip. (AC005223) 45643 [Arabidopsis thaliana]

Seq. No. 27604 Seq. ID OJ000150\_16.0124.C45  
 Gene No. 57033 Strand -  
 Start 21893 End 34090  
 Name OJ000150\_16.0124.C45.o1.tw Method TBLASTX:Wheat  
 Start 22177 End 22893  
 GI none Score 133  
 Exons 22177..22320, 22178..22324, 22194..22313, 22247..22327,  
 22671..22889, 22677..22889, 22678..22890, 22681..22893

Seq. No. 27604 Seq. ID OJ000150\_16.0124.C45  
 Gene No. 57033 Strand -  
 Start 21893 End 34090  
 Name OJ000150\_16.0124.C45.o7.tm Method TBLASTX:Maize  
 Start 22177 End 22327  
 GI none Score 126  
 Exons 22177..22326, 22178..22327, 22179..22313, 22247..22327

Seq. No. 27604 Seq. ID OJ000150\_16.0124.C45  
 Gene No. 57033 Strand -  
 Start 21893 End 34090  
 Name OJ000150\_16.0124.C45.o1.ts Method TBLASTX:Soybean  
 Start 22191 End 23960  
 GI none Score 108  
 Exons 22191..22295, 22193..22327, 22661..22816, 22674..22889,  
 22675..22890, 22955..23152, 22958..23203, 22963..23202,  
 22989..23216, 23194..23367, 23249..23341, 23314..23397,  
 23330..23377, 23386..23463, 23387..23464, 23458..23481,  
 23820..23960

Seq. No. 27604 Seq. ID OJ000150\_16.0124.C45  
 Gene No. 57033 Strand -  
 Start 21893 End 34090  
 Name OJ000150\_16.0124.C45.o1.tc Method TBLASTX:Cress  
 Start 22196 End 23464  
 GI none Score 117  
 Exons 22196..22327, 22197..22313, 22656..22889, 22675..22890,  
 22675..22908, 22958..23182, 22963..23184, 22969..23199,  
 23004..23189, 23260..23355, 23261..23317, 23386..23463,  
 23390..23464

Seq. No. 27604 Seq. ID OJ000150\_16.0124.C45  
 Gene No. 57033 Strand -  
 Start 21893 End 34090

Name	OJ000150_16.0124.C45.o1.tm	Method	TBLASTX:Maize
Start	22656	End	25082
GI	none	Score	322
Exons	22656..22889, 22675..22890, 22958..23194, 22961..23194, 22963..23199, 22966..23196, 23188..23556, 23198..23557, 23806..23880, 23807..23980, 23808..23999, 23808..23978, 23945..24136, 23958..24329, 23980..24330, 24176..24331, 24450..24476, 24450..24476, 24578..24646, 24579..24647, 24579..24647, 24580..24651, 24721..24828, 24727..24870, 24728..24871, 24975..25082		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o2.gp	Method	AAT/GAP
Start	23022	End	23860
GI	12993_1.R1084	Score	1148
Exons	23022..23556, 23808..23860		
GI Descrip.	'4204265 5.0e-42 (AC005223) 45643 [Arabidopsis thaliana]'		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o3.gp	Method	AAT/GAP
Start	24606	End	25572
GI	none	Score	1016
Exons	24606..24646, 24729..24888, 24996..25069, 25300..25572		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o5.np	Method	AAT/NAP
Start	29653	End	34090
GI	4887746	Score	1472
Exons	29653..29777, 29880..29962, 30093..30173, 30256..30312, 30389..30445, 30534..30633, 30776..30846, 30919..31065, 31144..31346, 31528..31687, 31788..31958, 32087..32149, 32383..32534, 32621..32722, 32809..32948, 33045..33260, 33402..33500, 33589..33708, 33831..34090		
GI Descrip.	(AC006533) putative unconventional myosin [Arabidopsis thaliana]		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o2.ts	Method	TBLASTX:Soybean
Start	29669	End	31251
GI	none	Score	53
Exons	29669..29791, 29882..29962, 30088..30183, 30090..30182, 30238..30327, 30253..30312, 30386..30448, 30387..30461, 30534..30635, 30535..30636, 30739..30843, 30919..31011, 31144..31251, 31145..31249		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o2.tc	Method	TBLASTX:Cress
Start	29711	End	33711

GI	none	Score	33
Exons	29711..29791, 29882..29965, 30090..30182, 30253..30312, 30266..30313, 30386..30463, 30387..30464, 30537..30635, 30538..30636, 30751..30846, 30901..31005, 31144..31269, 31175..31270, 31771..31956, 31788..31955, 33045..33158, 33120..33257, 33402..33551, 33589..33711, 33590..33709		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o3.tm	Method	TBLASTX:Maize
Start	29924	End	31631
GI	none	Score	50
Exons	29924..29965, 29925..29963, 30082..30174, 30090..30173, 30092..30181, 30092..30181, 30253..30324, 30254..30322, 30386..30448, 30387..30446, 30388..30447, 30534..30632, 30534..30635, 30535..30636, 30536..30643, 30739..30846, 30776..30847, 30778..30849, 30901..31068, 30901..31068, 30930..31070, 30935..31069, 31117..31335, 31118..31336, 31142..31336, 31531..31629, 31533..31631, 31534..31623		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o2.tw	Method	TBLASTX:Wheat
Start	30901	End	31273
GI	none	Score	119
Exons	30901..31044, 31144..31272, 31148..31273		

Seq. No.	27604	Seq. ID	OJ000150_16.0124.C45
Gene No.	57033	Strand	-
Start	21893	End	34090
Name	OJ000150_16.0124.C45.o4.ts	Method	TBLASTX:Soybean
Start	32662	End	33711
GI	none	Score	64
Exons	32662..32724, 32678..32740, 33045..33122, 33045..33257, 33052..33261, 33223..33261, 33401..33538, 33402..33551, 33589..33711, 33590..33709		

Seq. No.	27605	Seq. ID	OJ000150_16.0124.C48
Gene No.	57034	Strand	+
Start	170	End	775
Name	OJ000150_16.0124.C48.o1.gp	Method	AAT/GAP
Start	170	End	775
GI	18847_1.R1084	Score	617
Exons	170..255, 342..495, 669..775		
GI Descrip.	'4581520/emb CAB40177.1  5.0e-38 (AL049559) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	27605	Seq. ID	OJ000150_16.0124.C48
Gene No.	57034	Strand	+
Start	170	End	775
Name	OJ000150_16.0124.C48.o1.ts	Method	TBLASTX:Soybean
Start	211	End	773
GI	none	Score	62
Exons	211..255, 215..253, 339..485, 340..504, 340..510, 665..772, 666..773		



Seq. No.	27605	Seq. ID	OJ000150_16.0124.C48
Gene No.	57034	Strand	+
Start	170	End	775
Name	OJ000150_16.0124.C48.ol.np	Method	AAT/NAP
Start	215	End	775
GI	2245000	Score	120
Exons	215..255, 342..495, 737..775		
GI Descrip.	(Z97341) LET1 like protein [Arabidopsis thaliana]		

Seq. No.	27605	Seq. ID	OJ000150_16.0124.C48
Gene No.	57034	Strand	+
Start	170	End	775
Name	OJ000150_16.0124.C48.ol.gs	Method	GENSCAN
Start	342	End	495
GI	none	Score	.98
Exons	342..495		

Seq. No.	27606	Seq. ID	OJ000150_16.0124.C49
Gene No.	57035	Strand	+
Start	53	End	680
Name	OJ000150_16.0124.C49.ol.gs	Method	GENSCAN
Start	53	End	382
GI	none	Score	.48
Exons	53..382		

Seq. No.	27606	Seq. ID	OJ000150_16.0124.C49
Gene No.	57035	Strand	+
Start	53	End	680
Name	OJ000150_16.0124.C49.ol.ts	Method	TBLASTX:Soybean
Start	221	End	382
GI	none	Score	191
Exons	221..382, 229..381		

Seq. No.	27606	Seq. ID	OJ000150_16.0124.C49
Gene No.	57035	Strand	+
Start	53	End	680
Name	OJ000150_16.0124.C49.ol.gp	Method	AAT/GAP
Start	230	End	680
GI	18064_1.R1084	Score	857
Exons	230..680		
GI Descrip.	'2245000/emb CAB10420.1  1.0e-20 (Z97341) LET1 like protein [Arabidopsis thaliana]'		

Seq. No.	27606	Seq. ID	OJ000150_16.0124.C49
Gene No.	57035	Strand	+
Start	53	End	680
Name	OJ000150_16.0124.C49.ol.np	Method	AAT/NAP
Start	238	End	379
GI	2245000	Score	172
Exons	238..379		
GI Descrip.	(Z97341) LET1 like protein [Arabidopsis thaliana]		

Seq. No.	27607	Seq. ID	OJ000150_16.0124.C50
Gene No.	57036	Strand	-
Start	127	End	1040
Name	OJ000150_16.0124.C50.ol.gs	Method	GENSCAN

Start 127  
GI none  
Exons 127..190, 823..939

End 939  
Score .76

Seq. No. 27607  
Gene No. 57036  
Start 127  
Name OJ000150\_16.0124.C50.ol.np  
Start 127  
GI 4585982  
Exons 127..190, 823..1040  
GI Descrip. (AC005287) Unknown protein [Arabidopsis thaliana]

Seq. ID OJ000150\_16.0124.C50  
Strand -  
End 1040  
Method AAT/NAP  
End 1040  
Score 186

Seq. No. 27607  
Gene No. 57036  
Start 127  
Name OJ000150\_16.0124.C50.ol.tm  
Start 128  
GI none  
Exons 128..190, 130..192, 131..190, 820..930, 824..931, 920..1021, 922..1014

Seq. ID OJ000150\_16.0124.C50  
Strand -  
End 1040  
Method TBLASTX:Maize  
End 1021  
Score 63

Seq. No. 27608  
Gene No. 57037  
Start 58  
Name OJ000150\_16.0124.C54.ol.gp  
Start 58  
GI uC-osrocyp005g06b1  
Exons 58..293  
GI Descrip. '280523/pir||S28282 1.0e-24 hypothetical protein B0464.5 - Caenorhabditis elegans'

Seq. ID OJ000150\_16.0124.C54  
Strand -  
End 293  
Method AAT/GAP  
End 293  
Score 438

Seq. No. 27608  
Gene No. 57037  
Start 58  
Name OJ000150\_16.0124.C54.ol.gs  
Start 63  
GI none  
Exons 63..169

Seq. ID OJ000150\_16.0124.C54  
Strand -  
End 293  
Method GENSCAN  
End 169  
Score .92

Seq. No. 27609  
Gene No. 57038  
Start 20  
Name OJ000150\_16.0124.C56.ol.np  
Start 20  
GI 2326229  
Exons 20..274, 692..730  
GI Descrip. (AF012888) tousled-like kinase 1 [Zea mays]

Seq. ID OJ000150\_16.0124.C56  
Strand -  
End 730  
Method AAT/NAP  
End 730  
Score 248

Seq. No. 27609  
Gene No. 57038  
Start 20  
Name OJ000150\_16.0124.C56.ol.tm  
Start 71  
GI none  
Exons 71..298, 72..290

Seq. ID OJ000150\_16.0124.C56  
Strand -  
End 730  
Method TBLASTX:Maize  
End 298  
Score 260

Seq. No.	27609	Seq. ID	OJ000150_16.0124.C56
Gene No.	57038	Strand	-
Start	20	End	730
Name	OJ000150_16.0124.C56.o1.gs	Method	GENSCAN
Start	113	End	570
GI	none	Score	.9
Exons	113..274, 556..570		

Seq. No.	27609	Seq. ID	OJ000150_16.0124.C56
Gene No.	57038	Strand	-
Start	20	End	730
Name	OJ000150_16.0124.C56.o1.tc	Method	TBLASTX:Cress
Start	113	End	277
GI	none	Score	166
Exons	113..142, 129..275, 143..277, 144..275, 167..277		

Seq. No.	27610	Seq. ID	OJ000150_16.0124.C57
Gene No.	57039	Strand	+
Start	182	End	673
Name	OJ000150_16.0124.C57.o1.gp	Method	AAT/GAP
Start	182	End	566
GI	uC-osrocyp005g06b1	Score	735
Exons	182..566		
GI Descrip.	'280523/pir  S28282 1.0e-24 hypothetical protein B0464.5 - Caenorhabditis elegans'		

Seq. No.	27610	Seq. ID	OJ000150_16.0124.C57
Gene No.	57039	Strand	+
Start	182	End	673
Name	OJ000150_16.0124.C57.o1.gs	Method	GENSCAN
Start	306	End	566
GI	none	Score	.9
Exons	306..566		

Seq. No.	27610	Seq. ID	OJ000150_16.0124.C57
Gene No.	57039	Strand	+
Start	182	End	673
Name	OJ000150_16.0124.C57.o1.np	Method	AAT/NAP
Start	384	End	673
GI	4914374	Score	156
Exons	384..566, 647..673		
GI Descrip.	(AC007584) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	27610	Seq. ID	OJ000150_16.0124.C57
Gene No.	57039	Strand	+
Start	182	End	673
Name	OJ000150_16.0124.C57.o1.tc	Method	TBLASTX:Cress
Start	429	End	566
GI	none	Score	229
Exons	429..566, 455..556		

Seq. No.	27610	Seq. ID	OJ000150_16.0124.C57
Gene No.	57039	Strand	+
Start	182	End	673
Name	OJ000150_16.0124.C57.o1.tm	Method	TBLASTX:Maize
Start	429	End	568
GI	none	Score	246

Exons 429..566, 452..565, 459..566, 485..568

Seq. No.	27610	Seq. ID	OJ000150_16.0124.C57
Gene No.	57039	Strand	+
Start	182	End	673
Name	OJ000150_16.0124.C57.o1.ts	Method	TBLASTX:Soybean
Start	429	End	566
GI	none	Score	233
Exons	429..566, 455..556, 459..557		

Seq. No.	27611	Seq. ID	OJ000150_16.0124.C59
Gene No.	57040	Strand	-
Start	76	End	754
Name	OJ000150_16.0124.C59.o1.tm	Method	TBLASTX:Maize
Start	59	End	539
GI	none	Score	122
Exons	59..193, 59..169, 67..192, 294..539, 295..531		

Seq. No.	27611	Seq. ID	OJ000150_16.0124.C59
Gene No.	57040	Strand	-
Start	76	End	754
Name	OJ000150_16.0124.C59.o1.tc	Method	TBLASTX:Cress
Start	73	End	518
GI	none	Score	91
Exons	73..192, 92..169, 354..383, 370..516, 384..518, 385..516		

Seq. No.	27611	Seq. ID	OJ000150_16.0124.C59
Gene No.	57040	Strand	-
Start	76	End	754
Name	OJ000150_16.0124.C59.o1.np	Method	AAT/NAP
Start	76	End	754
GI	1076385	Score	304
Exons	76..168, 354..515, 627..754		
GI Descrip.	protein kinase (EC 2.7.1.37) tousled - Arabidopsis thaliana gi 433052 (L23985) protein kinase [Arabidopsis thaliana]		

Seq. No.	27611	Seq. ID	OJ000150_16.0124.C59
Gene No.	57040	Strand	-
Start	76	End	754
Name	OJ000150_16.0124.C59.o1.gs	Method	GENSCAN
Start	77	End	515
GI	none	Score	.83
Exons	77..168, 354..515		

Seq. No.	27612	Seq. ID	OJ000150_16.0124.C60
Gene No.	57041	Strand	+
Start	54	End	131
Name	OJ000150_16.0124.C60.o1.gp	Method	AAT/GAP
Start	54	End	131
GI	72424_1.R1084	Score	72
Exons	54..131		
GI Descrip.	'2842493/emb CAA16890.1  8.0e-32 (AL021749) predicted protein [Arabidopsis thaliana]'		

Seq. No.	27613	Seq. ID	OJ000150_11.0124.C1
Gene No.	57042	Strand	+
Start	114	End	190

Name OJ000150\_11.0124.C1.o1.gs  
 Start 114  
 GI none  
 Exons 114..190

Method GENSCAN  
 End 190  
 Score .78

Seq. No. 27614  
 Gene No. 57043  
 Start 481  
 Name OJ000150\_11.0124.C4.o1.gs  
 Start 481  
 GI none  
 Exons 481..680, 743..854

Seq. ID OJ000150\_11.0124.C4  
 Strand -  
 End 854  
 Method GENSCAN  
 End 854  
 Score .59

Seq. No. 27615  
 Gene No. 57044  
 Start 1174  
 Name OJ000150\_11.0124.C5.o1.gs  
 Start 1174  
 GI none  
 Exons 1174..1317

Seq. ID OJ000150\_11.0124.C5  
 Strand +  
 End 1317  
 Method GENSCAN  
 End 1317  
 Score .89

Seq. No. 27615  
 Gene No. 57045  
 Start 2087  
 Name OJ000150\_11.0124.C5.o2.gs  
 Start 2087  
 GI none  
 Exons 2087..3382

Seq. ID OJ000150\_11.0124.C5  
 Strand +  
 End 3382  
 Method GENSCAN  
 End 3382  
 Score 1

Seq. No. 27615  
 Gene No. 57045  
 Start 2087  
 Name OJ000150\_11.0124.C5.o1.tm  
 Start 2215  
 GI none  
 Exons 2215..2439, 2216..2455, 2498..2903..3109, 3155..3226

Seq. ID OJ000150\_11.0124.C5  
 Strand +  
 End 3382  
 Method TBLASTX:Maize  
 End 3226  
 Score 148

Seq. No. 27615  
 Gene No. 57045  
 Start 2087  
 Name OJ000150\_11.0124.C5.o1.tw  
 Start 2241  
 GI none  
 Exons 2241..2312, 2246..2395, 2261..2471..2623, 2474..2623, 2506..2640

Seq. ID OJ000150\_11.0124.C5  
 Strand +  
 End 3382  
 Method TBLASTX:Wheat  
 End 2640  
 Score 41

Seq. No. 27615  
 Gene No. 57045  
 Start 2087  
 Name OJ000150\_11.0124.C5.o1.ts  
 Start 2246  
 GI none  
 Exons 2246..2338, 2336..2404, 2444..2698, 2512..2688, 2834..3073

Seq. ID OJ000150\_11.0124.C5  
 Strand +  
 End 3382  
 Method TBLASTX:Soybean  
 End 3073  
 Score 75

Seq. No. 27616  
 Gene No. 57046

Seq. ID OJ000150\_11.0124.C6  
 Strand +

Start	60	End	127
Name	OJ000150_11.0124.C6.o1.gs	Method	GENSCAN
Start	60	End	127
GI	none	Score	.6
Exons	60..127		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57047	Strand	+
Start	1	End	93
Name	OJ000150_11.0124.C7.o3.gp	Method	AAT/GAP
Start	1	End	93
GI	LIB3477-003-P1-K1-E9	Score	168
Exons	1..93		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57048	Strand	+
Start	1	End	117
Name	OJ000150_11.0124.C7.o1.gp	Method	AAT/GAP
Start	1	End	117
GI	LIB3477-003-P1-K1-E9	Score	177
Exons	1..117		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57049	Strand	+
Start	982	End	14059
Name	OJ000150_11.0124.C7.o1.gs	Method	GENSCAN
Start	982	End	1461
GI	none	Score	.43
Exons	982..1461		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57049	Strand	+
Start	982	End	14059
Name	OJ000150_11.0124.C7.o1.np	Method	AAT/NAP
Start	1011	End	14059
GI	6649242	Score	44
Exons	1011..1181, 8008..8236, 13610..14059		
GI Descrip.	(AF201422) splicing coactivator subunit SRm300 [Homo sapiens]		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57049	Strand	+
Start	982	End	14059
Name	OJ000150_11.0124.C7.o4.gp	Method	AAT/GAP
Start	9501	End	9982
GI	none	Score	777
Exons	9501..9982		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57050	Strand	-
Start	1936	End	11179
Name	OJ000150_11.0124.C7.o2.gs	Method	GENSCAN

Start	1936	End	11179
GI	none	Score	.44
Exons	1936..2096, 2135..2249, 7462..7791, 8058..8137, 8420..8461, 9992..10085, 11027..11179		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57050	Strand	-
Start	1936	End	11179
Name	OJ000150_11.0124.C7.o2.gp	Method	AAT/GAP
Start	2871	End	3283
GI	LIB3432-059-P1-K1-D8	Score	727
Exons	2871..3283		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57051	Strand	-
Start	13606	End	14043
Name	OJ000150_11.0124.C7.o6.gp	Method	AAT/GAP
Start	12488	End	12596
GI	LIB3431-010-P1-N1-F11	Score	179
Exons	12488..12596		
GI Descrip.	'287403/dbj D10838 RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	27617	Seq. ID	OJ000150_11.0124.C7
Gene No.	57051	Strand	-
Start	13606	End	14043
Name	OJ000150_11.0124.C7.o3.gs	Method	GENSCAN
Start	13606	End	14043
GI	none	Score	.58
Exons	13606..14043		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57052	Strand	+
Start	1423	End	4357
Name	OJ000150_11.0124.C8.o1.gs	Method	GENSCAN
Start	1423	End	4219
GI	none	Score	.69
Exons	1423..1547, 2706..2907, 3836..3899, 4065..4219		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57052	Strand	+
Start	1423	End	4357
Name	OJ000150_11.0124.C8.o1.gp	Method	AAT/GAP
Start	4114	End	4357
GI	2796285	Score	475
Exons	4114..4357		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57053	Strand	+
Start	5839	End	10499
Name	OJ000150_11.0124.C8.o2.gs	Method	GENSCAN
Start	5839	End	10499
GI	none	Score	.73
Exons	5839..5953, 7462..7563, 7667..7864, 8115..8192, 8847..8968, 9269..9415, 10278..10499		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57054	Strand	+
Start	20325	End	21839
Name	OJ000150_11.0124.C8.o5.gs	Method	GENSCAN
Start	20325	End	21839
GI	none	Score	.82
Exons	20325..21839		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57054	Strand	+
Start	20325	End	21839
Name	OJ000150_11.0124.C8.o2.np	Method	AAT/NAP
Start	20493	End	21836
GI	4335735	Score	1084
Exons	20493..20697, 20740..21836		
GI Descrip.	(AC006248) unknown protein [Arabidopsis thaliana]		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57055	Strand	+
Start	26247	End	34070
Name	OJ000150_11.0124.C8.o6.gs	Method	GENSCAN
Start	26247	End	34070
GI	none	Score	.61
Exons	26247..26493, 29072..29216, 32198..32447, 32604..32877, 33296..33497, 33542..33863, 33990..34070		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57055	Strand	+
Start	26247	End	34070
Name	OJ000150_11.0124.C8.o4.np	Method	AAT/NAP
Start	28989	End	29854
GI	6721507	Score	203
Exons	28989..29223, 29501..29566, 29776..29854		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57056	Strand	-
Start	9948	End	12804
Name	OJ000150_11.0124.C8.o1.np	Method	AAT/NAP
Start	9948	End	12726
GI	5903036	Score	513
Exons	9948..10042, 10337..10471, 10703..10807, 10930..10999, 11226..11262, 12584..12726		
GI Descrip.	(AC008016) F6D8.5 [Arabidopsis thaliana]		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57056	Strand	-
Start	9948	End	12804
Name	OJ000150_11.0124.C8.o3.gs	Method	GENSCAN
Start	11169	End	12804
GI	none	Score	.41
Exons	11169..11262, 11923..12012, 12584..12738, 12787..12804		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57057	Strand	-
Start	16264	End	17957



Name	OJ000150_11.0124.C8.o4.gs	Method	GENSCAN
Start	16264	End	17957
GI	none	Score	.56
Exons	16264..16352, 16696..16776, 17702..17957		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57058	Strand	-
Start	21400	End	26530
Name	OJ000150_11.0124.C8.o3.np	Method	AAT/NAP
Start	21400	End	26530
GI	6539581	Score	436
Exons	21400..21425, 22579..23426, 23462..23701, 23792..23930, 24021..24317, 24510..24646, 24688..24765, 24874..25024, 26500..26530		

GI Descrip. (AP000837) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o3.ts	Method	TBLASTX:Soybean
Start	9784	End	10481
GI	none	Score	72
Exons	9784..9855, 9807..9854, 9948..10043, 9949..10044, 10164..10253, 10168..10251, 10329..10481, 10335..10481		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o4.tm	Method	TBLASTX:Maize
Start	9790	End	12681
GI	none	Score	59
Exons	9790..9858, 9807..9854, 9951..10040, 9961..10041, 10158..10253, 10329..10532, 10329..10481, 10721..10810, 10725..10805, 10923..11000, 10931..10999, 12578..12673, 12580..12681, 12584..12673, 12589..12681		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o2.tm	Method	TBLASTX:Maize
Start	20733	End	21020
GI	none	Score	403
Exons	20733..21020, 20733..20855, 20879..21019		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o2.ts	Method	TBLASTX:Soybean
Start	20742	End	21098
GI	none	Score	195
Exons	20742..20969, 20967..21095, 20985..21098		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o1.tw	Method	TBLASTX:Wheat

Start	20841	End	21242
GI	none	Score	134
Exons	20841..21098, 21110..21241, 21111..21242		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o2.tc	Method	TBLASTX:Cress
Start	20919	End	21286
GI	none	Score	180
Exons	20919..21095, 20991..21095, 21090..21281, 21098..21286		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o3.tm	Method	TBLASTX:Maize
Start	21216	End	21439
GI	none	Score	343
Exons	21216..21437, 21216..21437, 21217..21438, 21218..21439		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o1.ts	Method	TBLASTX:Soybean
Start	21369	End	21840
GI	none	Score	62
Exons	21369..21500, 21372..21419, 21446..21502, 21476..21523, 21477..21524, 21538..21732, 21546..21839, 21546..21839, 21559..21840		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o1.tm	Method	TBLASTX:Maize
Start	21440	End	21981
GI	none	Score	336
Exons	21440..21772, 21453..21845, 21480..21848, 21931..21981		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o1.tc	Method	TBLASTX:Cress
Start	21561	End	21893
GI	none	Score	340
Exons	21561..21893, 21698..21838, 21699..21839		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-
Start	33849	End	35800
Name	OJ000150_11.0124.C8.o6.np	Method	AAT/NAP
Start	33849	End	35800
GI	2909574	Score	113
Exons	33849..33895, 35445..35800		
GI Descrip.	(AL021926) PE_PGRS [Mycobacterium tuberculosis]		

Seq. No.	27618	Seq. ID	OJ000150_11.0124.C8
Gene No.	57059	Strand	-

Start 33849  
 Name OJ000150\_11.0124.C8.o7.gs  
 Start 35236  
 GI none  
 Exons 35236..35434, 35475..35800

End 35800  
 Method GENSCAN  
 End 35800  
 Score .68

Seq. No. 27619  
 Gene No. 57060  
 Start 5896  
 Name OJ000150\_11.0124.C9.o1.np  
 Start 5896  
 GI 5042463  
 Exons 5896..5930, 7713..7964, 8624..8760, 8812..8893, 9645..9742  
 GI Descrip. (AC007789) unknown protein [Oryza sativa]

Seq. ID OJ000150\_11.0124.C9  
 Strand +  
 End 9742  
 Method AAT/NAP  
 End 9742  
 Score 83

Seq. No. 27619  
 Gene No. 57060  
 Start 5896  
 Name OJ000150\_11.0124.C9.o4.gs  
 Start 8957  
 GI none  
 Exons 8957..9167, 9228..9499

Seq. ID OJ000150\_11.0124.C9  
 Strand +  
 End 9742  
 Method GENSCAN  
 End 9499  
 Score .99

Seq. No. 27619  
 Gene No. 57061  
 Start 3484  
 Name OJ000150\_11.0124.C9.o2.gs  
 Start 3484  
 GI none  
 Exons 3484..3593, 3673..3904, 5041..5123, 5144..5331, 5362..5408

Seq. ID OJ000150\_11.0124.C9  
 Strand -  
 End 5408  
 Method GENSCAN  
 End 5408  
 Score .69

Seq. No. 27619  
 Gene No. 57062  
 Start 5852  
 Name OJ000150\_11.0124.C9.o3.gs  
 Start 5852  
 GI none  
 Exons 5852..6286, 6616..6729, 6921..7349, 8073..8096

Seq. ID OJ000150\_11.0124.C9  
 Strand -  
 End 8096  
 Method GENSCAN  
 End 8096  
 Score .45

Seq. No. 27620  
 Gene No. 57063  
 Start 3073  
 Name OJ000150\_11.0124.C10.o2.np  
 Start 3073  
 GI 5042448  
 Exons 3073..3272

Seq. ID OJ000150\_11.0124.C10  
 Strand +  
 End 3272  
 Method AAT/NAP  
 End 3272  
 Score 315

GI Descrip. (AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]

Seq. No. 27620  
 Gene No. 57064  
 Start 1538  
 Name OJ000150\_11.0124.C10.o1.np  
 Start 1538  
 GI 4680183  
 Exons 1538..1627, 2232..2302

Seq. ID OJ000150\_11.0124.C10  
 Strand -  
 End 2302  
 Method AAT/NAP  
 End 2302  
 Score 187

GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57065	Strand	+
Start	271	End	1203
Name	OJ000150_11.0124.C11.o1.gs	Method	GENSCAN
Start	271	End	1203
GI	none	Score	.61
Exons	271..1203		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57066	Strand	+
Start	1459	End	6012
Name	OJ000150_11.0124.C11.o1.np	Method	AAT/NAP
Start	1459	End	6009
GI	4680179	Score	7692
Exons	1459..6009		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57066	Strand	+
Start	1459	End	6012
Name	OJ000150_11.0124.C11.o2.gs	Method	GENSCAN
Start	1459	End	6012
GI	none	Score	.55
Exons	1459..1933, 2099..2656, 2894..3393, 3475..6012		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o7.tw	Method	TBLASTX:Wheat
Start	1726	End	2085
GI	none	Score	305
Exons	1726..2085, 1752..1826, 1851..2084		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o6.tm	Method	TBLASTX:Maize
Start	1966	End	2298
GI	none	Score	211
Exons	1966..2298, 1966..2250, 1983..2153		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o8.tw	Method	TBLASTX:Wheat
Start	2655	End	3009
GI	none	Score	252
Exons	2655..2795, 2656..3009		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o4.tw	Method	TBLASTX:Wheat
Start	3184	End	3654
GI	none	Score	415
Exons	3184..3543, 3288..3542, 3529..3654, 3546..3611		

Seq. No. 27621  
Gene No. 57067  
Start 6297  
Name OJ000150\_11.0124.C11.o5.tm  
Start 3196  
GI none  
Exons 3196..3483, 3294..3485

Seq. ID OJ000150\_11.0124.C11  
Strand +  
End 6565  
Method TBLASTX:Maize  
End 3485  
Score 315

Seq. No. 27621  
Gene No. 57067  
Start 6297  
Name OJ000150\_11.0124.C11.o4.ts  
Start 3220  
GI none  
Exons 3220..3534, 3336..3533

Seq. ID OJ000150\_11.0124.C11  
Strand +  
End 6565  
Method TBLASTX:Soybean  
End 3534  
Score 182

Seq. No. 27621  
Gene No. 57067  
Start 6297  
Name OJ000150\_11.0124.C11.o3.tm  
Start 3547  
GI none  
Exons 3547..3720, 3706..4041, 3792..3923, 3948..3998

Seq. ID OJ000150\_11.0124.C11  
Strand +  
End 6565  
Method TBLASTX:Maize  
End 4041  
Score 158

Seq. No. 27621  
Gene No. 57067  
Start 6297  
Name OJ000150\_11.0124.C11.o1.ts  
Start 3595  
GI none  
Exons 3595..3627, 3595..3639, 3631..3990, 3631..3711, 3735..3989

Seq. ID OJ000150\_11.0124.C11  
Strand +  
End 6565  
Method TBLASTX:Soybean  
End 3990  
Score 57

Seq. No. 27621  
Gene No. 57067  
Start 6297  
Name OJ000150\_11.0124.C11.o5.tw  
Start 3703  
GI none  
Exons 3703..4005, 3704..3805, 3735..4004

Seq. ID OJ000150\_11.0124.C11  
Strand +  
End 6565  
Method TBLASTX:Wheat  
End 4005  
Score 402

Seq. No. 27621  
Gene No. 57067  
Start 6297  
Name OJ000150\_11.0124.C11.o2.tw  
Start 4006  
GI none  
Exons 4006..4515, 4038..4349, 4084..4431

Seq. ID OJ000150\_11.0124.C11  
Strand +  
End 6565  
Method TBLASTX:Wheat  
End 4515  
Score 629

Seq. No. 27621  
Gene No. 57067  
Start 6297  
Name OJ000150\_11.0124.C11.o3.ts  
Start 4012  
GI none  
Exons 4012..4257

Seq. ID OJ000150\_11.0124.C11  
Strand +  
End 6565  
Method TBLASTX:Soybean  
End 4257  
Score 202

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o2.tm	Method	TBLASTX:Maize
Start	4078	End	4443
GI	none	Score	488
Exons	4078..4431, 4080..4346, 4132..4443		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o3.tw	Method	TBLASTX:Wheat
Start	4519	End	4998
GI	none	Score	591
Exons	4519..4998, 4534..4992, 4743..4997		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o1.tc	Method	TBLASTX:Cress
Start	4705	End	5022
GI	none	Score	89
Exons	4705..4878, 4879..5022, 4881..5021		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o2.ts	Method	TBLASTX:Soybean
Start	4786	End	5046
GI	none	Score	299
Exons	4786..5046, 4791..5045		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o4.tm	Method	TBLASTX:Maize
Start	4845	End	5136
GI	none	Score	390
Exons	4845..5132, 4846..5136		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o1.tw	Method	TBLASTX:Wheat
Start	5005	End	5631
GI	none	Score	719
Exons	5005..5631, 5007..5630		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o1.tm	Method	TBLASTX:Maize
Start	5185	End	5784
GI	none	Score	222
Exons	5185..5346, 5193..5339, 5344..5784, 5346..5771		

Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
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Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o6.tw	Method	TBLASTX:Wheat
Start	5631	End	5964
GI	none	Score	367
Exons	5631..5702, 5632..5964, 5659..5739, 5724..5963		
Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o7.tm	Method	TBLASTX:Maize
Start	5788	End	6017
GI	none	Score	194
Exons	5788..5985, 5805..5984, 5961..6017		
Seq. No.	27621	Seq. ID	OJ000150_11.0124.C11
Gene No.	57067	Strand	+
Start	6297	End	6565
Name	OJ000150_11.0124.C11.o2.np	Method	AAT/NAP
Start	6297	End	6565
GI	91206	Score	88
Exons	6297..6565		
GI Descrip.	proline-rich protein - mouse (fragment) gi 200543 (M19419) proline-rich salivary protein [Mus musculus]		
Seq. No.	27622	Seq. ID	OJ000150_11.0124.C13
Gene No.	57068	Strand	-
Start	271	End	535
Name	OJ000150_11.0124.C13.o1.gs	Method	GENSCAN
Start	271	End	535
GI	none	Score	.61
Exons	271..535		
Seq. No.	27623	Seq. ID	OJ000150_11.0124.C14
Gene No.	57069	Strand	+
Start	119	End	1132
Name	OJ000150_11.0124.C14.o1.gs	Method	GENSCAN
Start	119	End	1132
GI	none	Score	.44
Exons	119..201, 733..933, 947..1132		
Seq. No.	27624	Seq. ID	OJ000150_11.0124.C15
Gene No.	57070	Strand	+
Start	106	End	390
Name	OJ000150_11.0124.C15.o1.gs	Method	GENSCAN
Start	106	End	390
GI	none	Score	.99
Exons	106..390		
Seq. No.	27625	Seq. ID	OJ000150_11.0124.C16
Gene No.	57071	Strand	+
Start	51	End	463
Name	OJ000150_11.0124.C16.o1.gp	Method	AAT/GAP
Start	51	End	463
GI	LIB3432-059-P1-K1-D8	Score	723
Exons	51..463		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic		

DNA, chromosome 6, clone:P0538C01'

Seq. No.	27626	Seq. ID	OJ000150_11.0124.C17
Gene No.	57072	Strand	+
Start	1	End	344
Name	OJ000150_11.0124.C17.o1.np	Method	AAT/NAP
Start	1	End	344
GI	5903036	Score	102
Exons	1..24, 107..344		
GI Descrip.	(AC008016) F6D8.5 [Arabidopsis thaliana]		

Seq. No.	27626	Seq. ID	OJ000150_11.0124.C17
Gene No.	57073	Strand	-
Start	83	End	424
Name	OJ000150_11.0124.C17.o1.tm	Method	TBLASTX:Maize
Start	65	End	424
GI	none	Score	157
Exons	65..253, 101..253, 329..424		

Seq. No.	27626	Seq. ID	OJ000150_11.0124.C17
Gene No.	57073	Strand	-
Start	83	End	424
Name	OJ000150_11.0124.C17.o1.ts	Method	TBLASTX:Soybean
Start	73	End	424
GI	none	Score	150
Exons	73..249, 101..253, 329..418, 335..424		

Seq. No.	27626	Seq. ID	OJ000150_11.0124.C17
Gene No.	57073	Strand	-
Start	83	End	424
Name	OJ000150_11.0124.C17.o1.gs	Method	GENSCAN
Start	83	End	258
GI	none	Score	.78
Exons	83..258		

Seq. No.	27627	Seq. ID	OJ000150_11.0124.C22
Gene No.	57074	Strand	-
Start	241	End	320
Name	OJ000150_11.0124.C22.o1.gs	Method	GENSCAN
Start	241	End	320
GI	none	Score	.77
Exons	241..320		

Seq. No.	27628	Seq. ID	OJ000150_11.0124.C25
Gene No.	57075	Strand	-
Start	87	End	1198
Name	OJ000150_11.0124.C25.o1.gs	Method	GENSCAN
Start	87	End	1198
GI	none	Score	.5
Exons	87..406, 607..659, 885..1024, 1087..1198		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57076	Strand	+
Start	1563	End	4260
Name	OJ000150_11.0124.C26.o1.gs	Method	GENSCAN
Start	1563	End	4260
GI	none	Score	.48



Exons 1563..1648, 4077..4260

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57077	Strand	+
Start	15174	End	17476
Name	OJ000150_11.0124.C26.o3.gs	Method	GENSCAN
Start	15174	End	17476
GI	none	Score	.83
Exons	15174..15276, 15327..15367, 16593..16692, 17313..17476		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57078	Strand	+
Start	18194	End	25533
Name	OJ000150_11.0124.C26.o4.gs	Method	GENSCAN
Start	18194	End	25533
GI	none	Score	.42
Exons	18194..18273, 18537..18679, 20643..20775, 20966..21296, 22699..22781, 25128..25533		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57079	Strand	+
Start	27538	End	33374
Name	OJ000150_11.0124.C26.o5.gs	Method	GENSCAN
Start	27538	End	33374
GI	none	Score	.54
Exons	27538..27616, 27830..28096, 28251..28432, 28638..28725, 28877..29040, 30114..30257, 30355..30496, 30591..31468, 31862..32203, 32360..32419, 32497..32610, 32691..33374		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57080	Strand	-
Start	4482	End	4923
Name	OJ000150_11.0124.C26.o1.gp	Method	AAT/GAP
Start	4482	End	4923
GI	3761526	Score	.762
Exons	4482..4923		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57081	Strand	-
Start	4829	End	12569
Name	OJ000150_11.0124.C26.o2.gs	Method	GENSCAN
Start	4829	End	12569
GI	none	Score	.72
Exons	4829..5467, 6534..6665, 7823..8002, 8595..8670, 9592..9812, 10348..10423, 10781..10927, 12508..12569		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57081	Strand	-
Start	4829	End	12569
Name	OJ000150_11.0124.C26.o1.np	Method	AAT/NAP
Start	4835	End	8973
GI	5915822	Score	.739
Exons	4835..5467, 6086..6166, 6534..6607, 8948..8973		
GI Descrip.	CYTOCHROME P450 79A1 (CYTOCHROME P450TYR) gi 2130096 pir  S68203 cytochrome P450tyr - sorghum gi 984543 (U32624) cytochrome P-450 [Sorghum bicolor]		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57082	Strand	-
Start	16676	End	18391
Name	OJ000150_11.0124.C26.o2.np	Method	AAT/NAP
Start	16676	End	18391
GI	5042463	Score	106
Exons	16676..16711, 17223..17332, 17384..17538, 18207..18391		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57083	Strand	-
Start	23174	End	23785
Name	OJ000150_11.0124.C26.o3.gp	Method	AAT/GAP
Start	23174	End	23785
GI	none	Score	1047
Exons	23174..23785		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57083	Strand	-
Start	23174	End	23785
Name	OJ000150_11.0124.C26.o2.gp	Method	AAT/GAP
Start	23206	End	23454
GI	none	Score	235
Exons	23206..23272, 23342..23454		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57084	Strand	-
Start	24028	End	24969
Name	OJ000150_11.0124.C26.o4.gp	Method	AAT/GAP
Start	24028	End	24579
GI	none	Score	249
Exons	24028..24137, 24529..24579		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57084	Strand	-
Start	24028	End	24969
Name	OJ000150_11.0124.C26.o5.gp	Method	AAT/GAP
Start	24029	End	24969
GI	none	Score	516
Exons	24029..24137, 24529..24684, 24759..24845, 24954..24969		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o2.tc	Method	TBLASTX:Cress
Start	4850	End	5090
GI	none	Score	106
Exons	4850..5089, 4920..5090		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o2.tm	Method	TBLASTX:Maize
Start	4946	End	5467
GI	none	Score	313
Exons	4946..5071, 5102..5467		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o1.ts	Method	TBLASTX:Soybean
Start	5082	End	5468
GI	none	Score	98
Exons	5082..5240, 5084..5467, 5123..5467, 5394..5468		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o1.tc	Method	TBLASTX:Cress
Start	5096	End	5470
GI	none	Score	138
Exons	5096..5446, 5105..5470, 5376..5456		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o4.tw	Method	TBLASTX:Wheat
Start	5174	End	5455
GI	none	Score	194
Exons	5174..5455		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o4.ts	Method	TBLASTX:Soybean
Start	33693	End	33928
GI	none	Score	46
Exons	33693..33731, 33698..33736, 33752..33928, 33756..33908		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o3.np	Method	AAT/NAP
Start	33704	End	36955
GI	4544372	Score	1129
Exons	33704..35231, 35336..35737, 35798..36955		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o2.tw	Method	TBLASTX:Wheat
Start	33755	End	34111
GI	none	Score	67
Exons	33755..34111, 33765..33896		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o6.gs	Method	GENSCAN
Start	34181	End	36691
GI	none	Score	.84
Exons	34181..34654, 34722..35304, 35310..36168, 36238..36430,		

36473..36691

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o6.ts	Method	TBLASTX:Soybean
Start	34271	End	34564
GI	none	Score	196
Exons	34271..34564		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o4.tm	Method	TBLASTX:Maize
Start	34292	End	34609
GI	none	Score	68
Exons	34292..34516, 34514..34609		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o3.ts	Method	TBLASTX:Soybean
Start	35092	End	35503
GI	none	Score	81
Exons	35092..35244, 35094..35264, 35267..35344, 35268..35345, 35352..35501, 35366..35503		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o2.ts	Method	TBLASTX:Soybean
Start	35654	End	36124
GI	none	Score	96
Exons	35654..35842, 35667..35798, 35843..36124, 35949..36086		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o3.tw	Method	TBLASTX:Wheat
Start	35741	End	36139
GI	none	Score	102
Exons	35741..35842, 35804..36139, 35808..36122		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o1.tm	Method	TBLASTX:Maize
Start	35810	End	36271
GI	none	Score	308
Exons	35810..36271, 35811..36269, 35882..36271		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o1.tw	Method	TBLASTX:Wheat
Start	36140	End	36544
GI	none	Score	301

Exons 36140..36493, 36141..36482, 36155..36484, 36482..36544,  
36498..36530

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o3.tm	Method	TBLASTX:Maize
Start	36272	End	36490
GI	none	Score	210
Exons	36272..36490, 36273..36482, 36290..36490		

Seq. No.	27629	Seq. ID	OJ000150_11.0124.C26
Gene No.	57085	Strand	-
Start	33704	End	36955
Name	OJ000150_11.0124.C26.o5.ts	Method	TBLASTX:Soybean
Start	36341	End	36706
GI	none	Score	68
Exons	36341..36475, 36488..36706, 36567..36695		

Seq. No.	27630	Seq. ID	OJ000150_11.0124.C27
Gene No.	57086	Strand	-
Start	75	End	1124
Name	OJ000150_11.0124.C27.o1.gs	Method	GENSCAN
Start	75	End	1124
GI	none	Score	.94
Exons	75..1124		

Seq. No.	27630	Seq. ID	OJ000150_11.0124.C27
Gene No.	57086	Strand	-
Start	75	End	1124
Name	OJ000150_11.0124.C27.o1.ts	Method	TBLASTX:Soybean
Start	267	End	605
GI	none	Score	208
Exons	267..605		

Seq. No.	27631	Seq. ID	OJ000150_11.0124.C31
Gene No.	57087	Strand	-
Start	1	End	262
Name	OJ000150_11.0124.C31.o1.np	Method	AAT/NAP
Start	1	End	196
GI	5042448	Score	262
Exons	1..196		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	27631	Seq. ID	OJ000150_11.0124.C31
Gene No.	57087	Strand	-
Start	1	End	262
Name	OJ000150_11.0124.C31.o1.gs	Method	GENSCAN
Start	8	End	262
GI	none	Score	.86
Exons	8..262		

Seq. No.	27632	Seq. ID	OJ000150_11.0124.C32
Gene No.	57088	Strand	-
Start	1	End	365
Name	OJ000150_11.0124.C32.o1.gp	Method	AAT/GAP

Start 1  
GI 4969338  
Exons 1..25, 220..365

End 365  
Score 318

Seq. No. 27633  
Gene No. 57089  
Start 6  
Name OJ000150\_11.0124.C33.o1.gs  
Start 6  
GI none  
Exons 6..89

Seq. ID OJ000150\_11.0124.C33  
Strand +  
End 89  
Method GENSCAN  
End 89  
Score .82

Seq. No. 27633  
Gene No. 57090  
Start 167  
Name OJ000150\_11.0124.C33.o1.np  
Start 167  
GI 6721507  
Exons 167..245, 455..520, 798..980  
GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. ID OJ000150\_11.0124.C33  
Strand -  
End 980  
Method AAT/NAP  
End 980  
Score 154

Seq. No. 27634  
Gene No. 57091  
Start 190  
Name OJ000150\_11.0124.C34.o1.gs  
Start 190  
GI none  
Exons 190..368

Seq. ID OJ000150\_11.0124.C34  
Strand -  
End 430  
Method GENSCAN  
End 368  
Score .99

Seq. No. 27634  
Gene No. 57091  
Start 190  
Name OJ000150\_11.0124.C34.o1.np  
Start 193  
GI 2098746  
Exons 193..430  
GI Descrip. (U94336) alkyl hydroperoxide reductase subunit C [Xanthomonas campestris]

Seq. ID OJ000150\_11.0124.C34  
Strand -  
End 430  
Method AAT/NAP  
End 430  
Score 305

Seq. No. 27635  
Gene No. 57092  
Start 1  
Name OJ000150\_11.0124.C35.o1.np  
Start 1  
GI 2501393  
Exons 1..372

Seq. ID OJ000150\_11.0124.C35  
Strand -  
End 372  
Method AAT/NAP  
End 372  
Score 432

GI Descrip. PROBABLE ABC TRANSPORTER PERMEASE PROTEIN MG188 HOMOLOG  
gi|2146651|pir||S73345 sn-glycerol-3-phosphate transport system  
permease ugpA - Mycoplasma pneumoniae (SGC3) (ATCC 29342)  
gi|1673666 (AE000003) Mycoplasma pneumoniae,  
sn-glycerol-3-phosphate transport system permease protein;  
similar to Swiss-Prot Accession Number P10905, from E. coli  
[Mycoplasma pneumoniae]

Seq. No. 27636  
Gene No. 57093  
Start 251

Seq. ID OJ000150\_11.0124.C37  
Strand +  
End 328

Name	OJ000150_11.0124.C37.o1.gp	Method	AAT/GAP
Start	251	End	328
GI	LIB3477-003-P1-K1-E9	Score	101
Exons	251..328		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27637	Seq. ID	OJ000150_11.0124.C41
Gene No.	57094	Strand	+
Start	135	End	670
Name	OJ000150_11.0124.C41.o1.gs	Method	GENSCAN
Start	135	End	670
GI	none	Score	.88
Exons	135..223, 478..670		

Seq. No.	27637	Seq. ID	OJ000150_11.0124.C41
Gene No.	57095	Strand	-
Start	1	End	691
Name	OJ000150_11.0124.C41.o1.np	Method	AAT/NAP
Start	1	End	691
GI	5042463	Score	123
Exons	1..334, 648..691		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	27638	Seq. ID	OJ000150_11.0124.C42
Gene No.	57096	Strand	+
Start	66	End	209
Name	OJ000150_11.0124.C42.o1.gs	Method	GENSCAN
Start	66	End	209
GI	none	Score	.84
Exons	66..209		

Seq. No.	27638	Seq. ID	OJ000150_11.0124.C42
Gene No.	57097	Strand	-
Start	356	End	484
Name	OJ000150_11.0124.C42.o2.gs	Method	GENSCAN
Start	356	End	484
GI	none	Score	.9
Exons	356..484		

Seq. No.	27639	Seq. ID	OJ000150_11.0124.C46
Gene No.	57098	Strand	-
Start	49	End	211
Name	OJ000150_11.0124.C46.o1.gs	Method	GENSCAN
Start	49	End	211
GI	none	Score	.93
Exons	49..211		

Seq. No.	27640	Seq. ID	OJ000150_11.0124.C47
Gene No.	57099	Strand	+
Start	190	End	275
Name	OJ000150_11.0124.C47.o1.gs	Method	GENSCAN
Start	190	End	275
GI	none	Score	.91
Exons	190..275		

Seq. No. 27641  
Gene No. 57100  
Start 32  
Name OJ000150\_11.0124.C48.ol.gs  
Start 32  
GI none  
Exons 32..118, 351..473

Seq. ID OJ000150\_11.0124.C48  
Strand -  
End 473  
Method GENSCAN  
End 473  
Score .6

Seq. No. 27642  
Gene No. 57101  
Start 527  
Name OJ000150\_11.0124.C49.ol.gs  
Start 527  
GI none  
Exons 527..636

Seq. ID OJ000150\_11.0124.C49  
Strand -  
End 636  
Method GENSCAN  
End 636  
Score .84

Seq. No. 27643  
Gene No. 57102  
Start 64  
Name OJ000150\_11.0124.C51.ol.gs  
Start 64  
GI none  
Exons 64..148, 349..401

Seq. ID OJ000150\_11.0124.C51  
Strand -  
End 401  
Method GENSCAN  
End 401  
Score .55

Seq. No. 27644  
Gene No. 57103  
Start 1  
Name OJ000150\_11.0124.C54.ol.gp  
Start 1  
GI 3761526  
Exons 1..386

Seq. ID OJ000150\_11.0124.C54  
Strand -  
End 386  
Method AAT/GAP  
End 386  
Score 714

Seq. No. 27644  
Gene No. 57104  
Start 298  
Name OJ000150\_11.0124.C54.ol.np  
Start 298  
GI 5915822  
Exons 298..722

Seq. ID OJ000150\_11.0124.C54  
Strand -  
End 722  
Method AAT/NAP  
End 722  
Score 404

GI Descrip. CYTOCHROME P450 79A1 (CYTOCHROME P450TYR) gi|2130096|pir||S68203  
cytochrome P450tyr - sorghum gi|984543 (U32624) cytochrome P-450  
[Sorghum bicolor]

Seq. No. 27644  
Gene No. 57104  
Start 298  
Name OJ000150\_11.0124.C54.ol.tm  
Start 298  
GI none  
Exons 298..414, 391..552, 395..553, 568..621

Seq. ID OJ000150\_11.0124.C54  
Strand -  
End 722  
Method TBLASTX:Maize  
End 621  
Score 120

Seq. No. 27644  
Gene No. 57104  
Start 298  
Name OJ000150\_11.0124.C54.ol.tc  
Start 313  
GI none

Seq. ID OJ000150\_11.0124.C54  
Strand -  
End 722  
Method TBLASTX:Cress  
End 649  
Score 154



Exons 313..648, 383..649

Seq. No.	27645	Seq. ID	OJ000150_11.0124.C55
Gene No.	57105	Strand	+
Start	2962	End	5346
Name	OJ000150_11.0124.C55.o2.np	Method	AAT/NAP
Start	2962	End	5346
GI	5042463	Score	149
Exons	2962..3129, 4204..4393, 5058..5212, 5264..5346		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	27645	Seq. ID	OJ000150_11.0124.C55
Gene No.	57106	Strand	-
Start	493	End	3097
Name	OJ000150_11.0124.C55.o1.gs	Method	GENSCAN
Start	493	End	3097
GI	none	Score	.46
Exons	493..683, 705..752, 834..1091, 1432..1527, 1893..2039, 2077..2215, 3017..3097		

Seq. No.	27645	Seq. ID	OJ000150_11.0124.C55
Gene No.	57107	Strand	-
Start	6565	End	6958
Name	OJ000150_11.0124.C55.o2.tm	Method	TBLASTX:Maize
Start	204	End	416
GI	none	Score	186
Exons	204..416		

Seq. No.	27645	Seq. ID	OJ000150_11.0124.C55
Gene No.	57107	Strand	-
Start	6565	End	6958
Name	OJ000150_11.0124.C55.o1.tm	Method	TBLASTX:Maize
Start	606	End	892
GI	none	Score	63
Exons	606..710, 607..735, 608..721, 711..890, 712..891, 713..769, 715..891, 809..892		

Seq. No.	27645	Seq. ID	OJ000150_11.0124.C55
Gene No.	57107	Strand	-
Start	6565	End	6958
Name	OJ000150_11.0124.C55.o2.gs	Method	GENSCAN
Start	6565	End	6958
GI	none	Score	.68
Exons	6565..6958		

Seq. No.	27646	Seq. ID	OJ000150_11.0124.C57
Gene No.	57108	Strand	+
Start	533	End	665
Name	OJ000150_11.0124.C57.o1.gs	Method	GENSCAN
Start	533	End	665
GI	none	Score	.74
Exons	533..665		

Seq. No.	27647	Seq. ID	OJ000150_11.0124.C58
Gene No.	57109	Strand	-
Start	1	End	630
Name	OJ000150_11.0124.C58.o1.np	Method	AAT/NAP

Start	1	End	630
GI	4680179	Score	891
Exons	1..630		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	27647	Seq. ID	OJ000150_11.0124.C58
Gene No.	57109	Strand	-
Start	1	End	630
Name	OJ000150_11.0124.C58.o1.gs	Method	GENSCAN
Start	137	End	548
GI	none	Score	.43
Exons	137..548		

Seq. No.	27648	Seq. ID	OJ000150_11.0124.C59
Gene No.	57110	Strand	+
Start	115	End	228
Name	OJ000150_11.0124.C59.o1.gs	Method	GENSCAN
Start	115	End	228
GI	none	Score	.99
Exons	115..228		

Seq. No.	27649	Seq. ID	OJ000150_11.0124.C60
Gene No.	57111	Strand	-
Start	195	End	364
Name	OJ000150_11.0124.C60.o1.gs	Method	GENSCAN
Start	195	End	364
GI	none	Score	.46
Exons	195..364		

Seq. No.	27650	Seq. ID	OJ000150_11.0124.C61
Gene No.	57112	Strand	-
Start	228	End	626
Name	OJ000150_11.0124.C61.o1.gs	Method	GENSCAN
Start	228	End	626
GI	none	Score	.91
Exons	228..353, 417..626		

Seq. No.	27651	Seq. ID	OJ000150_11.0124.C62
Gene No.	57113	Strand	+
Start	301	End	409
Name	OJ000150_11.0124.C62.o1.gp	Method	AAT/GAP
Start	301	End	409
GI	LIB3431-010-P1-N1-F11	Score	179
Exons	301..409		
GI Descrip.	'287403/dbj D10838 RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	27651	Seq. ID	OJ000150_11.0124.C62
Gene No.	57114	Strand	+
Start	701	End	820
Name	OJ000150_11.0124.C62.o1.gs	Method	GENSCAN
Start	701	End	820
GI	none	Score	.56
Exons	701..820		

Seq. No.	27652	Seq. ID	OJ000150_11.0124.C63
Gene No.	57115	Strand	-

Start 583  
 Name OJ000150\_11.0124.C63.ol.gs  
 Start 583  
 GI none  
 Exons 583..678

End 678  
 Method GENSCAN  
 End 678  
 Score .53

Seq. No. 27653  
 Gene No. 57116  
 Start 163  
 Name OJ000150\_11.0124.C64.ol.gs  
 Start 163  
 GI none  
 Exons 163..426

Seq. ID OJ000150\_11.0124.C64  
 Strand +  
 End 426  
 Method GENSCAN  
 End 426  
 Score .49

Seq. No. 27654  
 Gene No. 57117  
 Start 276  
 Name OJ000150\_11.0124.C65.ol.gs  
 Start 276  
 GI none  
 Exons 276..404

Seq. ID OJ000150\_11.0124.C65  
 Strand +  
 End 404  
 Method GENSCAN  
 End 404  
 Score .43

Seq. No. 27655  
 Gene No. 57118  
 Start 1  
 Name OJ000150\_11.0124.C66.ol.np  
 Start 1  
 GI 4680179  
 Exons 1..476

Seq. ID OJ000150\_11.0124.C66  
 Strand -  
 End 476  
 Method AAT/NAP  
 End 476  
 Score 779

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 27655  
 Gene No. 57118  
 Start 1  
 Name OJ000150\_11.0124.C66.ol.gs  
 Start 11  
 GI none  
 Exons 11..374

Seq. ID OJ000150\_11.0124.C66  
 Strand -  
 End 476  
 Method GENSCAN  
 End 374  
 Score .43

Seq. No. 27655  
 Gene No. 57118  
 Start 1  
 Name OJ000150\_11.0124.C66.ol.tw  
 Start 84  
 GI none  
 Exons 84..179, 85..126, 150..449, 165..413, 238..444

Seq. ID OJ000150\_11.0124.C66  
 Strand -  
 End 476  
 Method TBLASTX:Wheat  
 End 449  
 Score 36

Seq. No. 27655  
 Gene No. 57118  
 Start 1  
 Name OJ000150\_11.0124.C66.ol.tm  
 Start 114  
 GI none  
 Exons 114..446, 162..446

Seq. ID OJ000150\_11.0124.C66  
 Strand -  
 End 476  
 Method TBLASTX:Maize  
 End 446  
 Score 122

Seq. No. 27656  
 Gene No. 57119

Seq. ID OJ000150\_11.0124.C67  
 Strand +

Start	1	End	371
Name	OJ000150_11.0124.C67.ol.np	Method	AAT/NAP
Start	1	End	371
GI	3138799	Score	185
Exons	1..197, 334..371		
GI Descrip.	(AB014058) beta 6 subunit of 20S proteasome [Oryza sativa]		
Seq. No.	27656	Seq. ID	OJ000150_11.0124.C67
Gene No.	57119	Strand	+
Start	1	End	371
Name	OJ000150_11.0124.C67.ol.tm	Method	TBLASTX:Maize
Start	24	End	195
GI	none	Score	188
Exons	24..191, 42..191, 49..195		
Seq. No.	27656	Seq. ID	OJ000150_11.0124.C67
Gene No.	57119	Strand	+
Start	1	End	371
Name	OJ000150_11.0124.C67.ol.tc	Method	TBLASTX:Cress
Start	51	End	195
GI	none	Score	213
Exons	51..194, 52..195		
Seq. No.	27656	Seq. ID	OJ000150_11.0124.C67
Gene No.	57119	Strand	+
Start	1	End	371
Name	OJ000150_11.0124.C67.ol.ts	Method	TBLASTX:Soybean
Start	51	End	195
GI	none	Score	80
Exons	51..191, 51..194, 52..195		
Seq. No.	27656	Seq. ID	OJ000150_11.0124.C67
Gene No.	57119	Strand	+
Start	1	End	371
Name	OJ000150_11.0124.C67.ol.gp	Method	AAT/GAP
Start	53	End	197
GI	57_1.R1084	Score	233
Exons	53..197		
GI Descrip.	'3138799/dbj BAA28276  1.0e-124 (AB014058) beta 6 subunit of 20S proteasome [Oryza sativa]'		
Seq. No.	27657	Seq. ID	OJ000150_11.0124.C69
Gene No.	57120	Strand	-
Start	319	End	517
Name	OJ000150_11.0124.C69.ol.gs	Method	GENSCAN
Start	319	End	517
GI	none	Score	.48
Exons	319..517		
Seq. No.	27658	Seq. ID	OJ000150_11.0124.C70
Gene No.	57121	Strand	+
Start	343	End	434
Name	OJ000150_11.0124.C70.ol.gs	Method	GENSCAN
Start	343	End	434
GI	none	Score	.58
Exons	343..434		

Seq. No.	27659	Seq. ID	OJ000150_13.0124.C1
Gene No.	57122	Strand	+
Start	1	End	403
Name	OJ000150_13.0124.C1.o1.np	Method	AAT/NAP
Start	1	End	403
GI	3980411	Score	113
Exons	1..403		
GI Descrip.	(AC004561) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	27659	Seq. ID	OJ000150_13.0124.C1
Gene No.	57122	Strand	+
Start	1	End	403
Name	OJ000150_13.0124.C1.o1.gs	Method	GENSCAN
Start	128	End	273
GI	none	Score	.88
Exons	128..273		

Seq. No.	27660	Seq. ID	OJ000150_13.0124.C2
Gene No.	57123	Strand	-
Start	4	End	210
Name	OJ000150_13.0124.C2.o1.np	Method	AAT/NAP
Start	4	End	210
GI	4680186	Score	91
Exons	4..210		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	27660	Seq. ID	OJ000150_13.0124.C2
Gene No.	57124	Strand	-
Start	515	End	561
Name	OJ000150_13.0124.C2.o2.gs	Method	GENSCAN
Start	515	End	561
GI	none	Score	.73
Exons	515..561		

Seq. No.	27661	Seq. ID	OJ000150_13.0124.C3
Gene No.	57125	Strand	+
Start	90	End	318
Name	OJ000150_13.0124.C3.o1.gs	Method	GENSCAN
Start	90	End	318
GI	none	Score	.42
Exons	90..318		

Seq. No.	27662	Seq. ID	OJ000150_13.0124.C4
Gene No.	57126	Strand	+
Start	81	End	302
Name	OJ000150_13.0124.C4.o1.gs	Method	GENSCAN
Start	81	End	302
GI	none	Score	.85
Exons	81..302		

Seq. No.	27663	Seq. ID	OJ000150_13.0124.C5
Gene No.	57127	Strand	+
Start	233	End	623
Name	OJ000150_13.0124.C5.o1.gs	Method	GENSCAN
Start	233	End	623
GI	none	Score	.91
Exons	233..249, 322..623		

Seq. No. 27664  
 Gene No. 57128  
 Start 365  
 Name OJ000150\_13.0124.C6.o1.gs  
 Start 365  
 GI none  
 Exons 365..560

Seq. ID OJ000150\_13.0124.C6  
 Strand -  
 End 560  
 Method GENSCAN  
 End 560  
 Score .48

Seq. No. 27665  
 Gene No. 57129  
 Start 52  
 Name OJ000150\_13.0124.C7.o1.gs  
 Start 52  
 GI none  
 Exons 52..313, 400..452

Seq. ID OJ000150\_13.0124.C7  
 Strand -  
 End 452  
 Method GENSCAN  
 End 452  
 Score .53

Seq. No. 27666  
 Gene No. 57130  
 Start 39  
 Name OJ000150\_13.0124.C9.o1.gs  
 Start 39  
 GI none  
 Exons 39..163, 374..442

Seq. ID OJ000150\_13.0124.C9  
 Strand -  
 End 442  
 Method GENSCAN  
 End 442  
 Score .68

Seq. No. 27667  
 Gene No. 57131  
 Start 89  
 Name OJ000150\_13.0124.C10.o1.gs  
 Start 89  
 GI none  
 Exons 89..196, 198..454

Seq. ID OJ000150\_13.0124.C10  
 Strand -  
 End 454  
 Method GENSCAN  
 End 454  
 Score .5

Seq. No. 27668  
 Gene No. 57132  
 Start 1  
 Name OJ000150\_13.0124.C13.o1.np  
 Start 1  
 GI 4416302  
 Exons 1..597

Seq. ID OJ000150\_13.0124.C13  
 Strand +  
 End 597  
 Method AAT/NAP  
 End 597  
 Score 636

GI Descrip. (AF105716) copia-type pol polyprotein [Zea mays]

Seq. No. 27668  
 Gene No. 57132  
 Start 1  
 Name OJ000150\_13.0124.C13.o1.tw  
 Start 1  
 GI none  
 Exons 1..174, 1..174, 165..209, 249..527, 249..536

Seq. ID OJ000150\_13.0124.C13  
 Strand +  
 End 597  
 Method TBLASTX:Wheat  
 End 536  
 Score 170

Seq. No. 27668  
 Gene No. 57132  
 Start 1  
 Name OJ000150\_13.0124.C13.o1.tm  
 Start 99  
 GI none  
 Exons 99..164, 100..174, 165..593, 230..493

Seq. ID OJ000150\_13.0124.C13  
 Strand +  
 End 597  
 Method TBLASTX:Maize  
 End 593  
 Score 92

Seq. No.	27668	Seq. ID	OJ000150_13.0124.C13
Gene No.	57132	Strand	+
Start	1	End	597
Name	OJ000150_13.0124.C13.o1.ts	Method	TBLASTX:Soybean
Start	378	End	587
GI	none	Score	188
Exons	378..587, 407..532		
Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57133	Strand	+
Start	27	End	17747
Name	OJ000150_13.0124.C14.o1.gs	Method	GENSCAN
Start	27	End	17747
GI	none	Score	.5
Exons	27..272, 531..677, 769..818, 1342..1982, 2295..3008, 9473..9609, 9829..10014, 10021..10564, 11590..11669, 13032..13092, 13506..13856, 14367..14398, 17140..17220, 17592..17747		
Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57133	Strand	+
Start	27	End	17747
Name	OJ000150_13.0124.C14.o1.np	Method	AAT/NAP
Start	588	End	3700
GI	4416302	Score	3340
Exons	588..3700		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		
Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57134	Strand	+
Start	17816	End	20771
Name	OJ000150_13.0124.C14.o3.np	Method	AAT/NAP
Start	17816	End	20771
GI	5852179	Score	440
Exons	17816..17836, 18826..19033, 19107..19356, 20737..20771		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		
Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57134	Strand	+
Start	17816	End	20771
Name	OJ000150_13.0124.C14.o4.np	Method	AAT/NAP
Start	20423	End	20654
GI	4680186	Score	108
Exons	20423..20654		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57135	Strand	+
Start	27404	End	29550
Name	OJ000150_13.0124.C14.o7.np	Method	AAT/NAP
Start	25894	End	29550
GI	6498436	Score	372
Exons	25894..25964, 28598..28922, 29174..29246, 29494..29550		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57135	Strand	+

Start	27404	End	29550
Name	OJ000150_13.0124.C14.o3.gs	Method	GENSCAN
Start	27404	End	28314
GI	none	Score	.59
Exons	27404..27464, 27669..27889, 27970..28314		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57135	Strand	+
Start	27404	End	29550
Name	OJ000150_13.0124.C14.o6.np	Method	AAT/NAP
Start	27689	End	27788
GI	5777617	Score	67
Exons	27689..27788		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57136	Strand	-
Start	11981	End	14955
Name	OJ000150_13.0124.C14.o2.np	Method	AAT/NAP
Start	11981	End	14955
GI	5852179	Score	391
Exons	11981..12017, 13426..13660, 13735..13947, 14935..14955		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57137	Strand	-
Start	16924	End	17209
Name	OJ000150_13.0124.C14.o2.gp	Method	AAT/GAP
Start	16924	End	17209
GI	61605_1.R1084	Score	479
Exons	16924..17209		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57138	Strand	-
Start	21043	End	22773
Name	OJ000150_13.0124.C14.o5.np	Method	AAT/NAP
Start	21043	End	22773
GI	6907087	Score	809
Exons	21043..21144, 21686..22358, 22404..22773		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o7.tm	Method	TBLASTX:Maize
Start	431	End	776
GI	none	Score	89
Exons	431..508, 446..508, 537..776, 558..614, 641..769		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o3.tw	Method	TBLASTX:Wheat



Start 552  
GI none  
Exons 552..869, 566..871

End 871  
Score 226

Seq. No. 27669 Seq. ID OJ000150\_13.0124.C14  
Gene No. 57139 Strand -  
Start 29136 End 29287  
Name OJ000150\_13.0124.C14.o5.tm Method TBLASTX:Maize  
Start 779 End 1154  
GI none Score 84  
Exons 779..910, 780..908, 898..1104, 899..1120, 899..1144, 903..1154

Seq. No. 27669 Seq. ID OJ000150\_13.0124.C14  
Gene No. 57139 Strand -  
Start 29136 End 29287  
Name OJ000150\_13.0124.C14.o1.tw Method TBLASTX:Wheat  
Start 941 End 1516  
GI none Score 219  
Exons 941..1144, 942..1154, 1145..1189, 1229..1507, 1229..1516

Seq. No. 27669 Seq. ID OJ000150\_13.0124.C14  
Gene No. 57139 Strand -  
Start 29136 End 29287  
Name OJ000150\_13.0124.C14.o2.tm Method TBLASTX:Maize  
Start 1178 End 2041  
GI none Score 104  
Exons 1178..1249, 1193..1717, 1199..1687, 1249..1701, 1714..1830,  
1718..1870, 1862..2041, 1891..1980

Seq. No. 27669 Seq. ID OJ000150\_13.0124.C14  
Gene No. 57139 Strand -  
Start 29136 End 29287  
Name OJ000150\_13.0124.C14.o3.ts Method TBLASTX:Soybean  
Start 1358 End 1822  
GI none Score 267  
Exons 1358..1708, 1387..1566, 1615..1701, 1721..1822

Seq. No. 27669 Seq. ID OJ000150\_13.0124.C14  
Gene No. 57139 Strand -  
Start 29136 End 29287  
Name OJ000150\_13.0124.C14.o6.tm Method TBLASTX:Maize  
Start 2042 End 2329  
GI none Score 280  
Exons 2042..2284, 2062..2277, 2063..2284, 2279..2329, 2279..2329

Seq. No. 27669 Seq. ID OJ000150\_13.0124.C14  
Gene No. 57139 Strand -  
Start 29136 End 29287  
Name OJ000150\_13.0124.C14.o1.ts Method TBLASTX:Soybean  
Start 2057 End 2670  
GI 5509260 Score 673  
Exons 2057..2665, 2063..2449, 2371..2670, 2584..2670  
GI Descrip. -

Seq. No. 27669 Seq. ID OJ000150\_13.0124.C14  
Gene No. 57139 Strand -  
Start 29136 End 29287

Name	OJ000150_13.0124.C14.o2.tw	Method	TBLASTX:Wheat
Start	2186	End	2662
GI	none	Score	74
Exons	2186..2275, 2282..2308, 2299..2652, 2309..2656, 2315..2662		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o2.tc	Method	TBLASTX:Cress
Start	2279	End	2551
GI	none	Score	184
Exons	2279..2551, 2279..2461		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o3.tm	Method	TBLASTX:Maize
Start	2330	End	2797
GI	none	Score	72
Exons	2330..2449, 2331..2507, 2336..2797, 2371..2796		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o8.tm	Method	TBLASTX:Maize
Start	2839	End	3031
GI	none	Score	244
Exons	2839..3030, 2840..3031		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o5.tw	Method	TBLASTX:Wheat
Start	2846	End	3277
GI	none	Score	92
Exons	2846..3007, 3020..3277		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o1.tm	Method	TBLASTX:Maize
Start	3032	End	3780
GI	none	Score	918
Exons	3032..3694, 3037..3549, 3194..3709, 3595..3699, 3597..3719, 3751..3780		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o2.ts	Method	TBLASTX:Soybean
Start	3041	End	3727
GI	none	Score	307
Exons	3041..3424, 3046..3417, 3053..3424, 3458..3727, 3466..3546		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287

Name	OJ000150_13.0124.C14.o1.tc	Method	TBLASTX:Cress
Start	3221	End	3679
GI	none	Score	69
Exons	3221..3310, 3314..3448, 3434..3679		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o6.tw	Method	TBLASTX:Wheat
Start	3314	End	3646
GI	none	Score	107
Exons	3314..3439, 3334..3435, 3458..3646, 3515..3634		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o7.tw	Method	TBLASTX:Wheat
Start	25906	End	26106
GI	none	Score	186
Exons	25906..26106		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o8.tw	Method	TBLASTX:Wheat
Start	26474	End	26922
GI	none	Score	109
Exons	26474..26560, 26651..26773, 26785..26922		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o4.tm	Method	TBLASTX:Maize
Start	26761	End	27678
GI	none	Score	122
Exons	26761..26922, 26946..27335, 27109..27246, 27335..27409, 27434..27544, 27435..27524, 27484..27678		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o4.tw	Method	TBLASTX:Wheat
Start	27383	End	27654
GI	none	Score	100
Exons	27383..27409, 27422..27544, 27434..27553, 27538..27654		

Seq. No.	27669	Seq. ID	OJ000150_13.0124.C14
Gene No.	57139	Strand	-
Start	29136	End	29287
Name	OJ000150_13.0124.C14.o4.gs	Method	GENSCAN
Start	29136	End	29287
GI	none	Score	.61
Exons	29136..29287		

Seq. No.	27670	Seq. ID	OJ000150_13.0124.C17
Gene No.	57140	Strand	+
Start	657	End	845

Name	OJ000150_13.0124.C17.o1.gs	Method	GENSCAN
Start	657	End	845
GI	none	Score	.77
Exons	657..845		
Seq. No.	27671	Seq. ID	OJ000150_13.0124.C20
Gene No.	57141	Strand	+
Start	1	End	977
Name	OJ000150_13.0124.C20.o2.np	Method	AAT/NAP
Start	1	End	977
GI	5001454	Score	97
Exons	1..111, 537..761, 920..977		
GI Descrip.	(AC007730) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		
Seq. No.	27671	Seq. ID	OJ000150_13.0124.C20
Gene No.	57142	Strand	-
Start	8	End	977
Name	OJ000150_13.0124.C20.o1.gs	Method	GENSCAN
Start	8	End	783
GI	none	Score	.54
Exons	8..217, 298..518, 723..783		
Seq. No.	27671	Seq. ID	OJ000150_13.0124.C20
Gene No.	57142	Strand	-
Start	8	End	977
Name	OJ000150_13.0124.C20.o1.np	Method	AAT/NAP
Start	399	End	977
GI	5777617	Score	60
Exons	399..500, 958..977		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	27671	Seq. ID	OJ000150_13.0124.C20
Gene No.	57142	Strand	-
Start	8	End	977
Name	OJ000150_13.0124.C20.o1.tw	Method	TBLASTX:Wheat
Start	533	End	804
GI	none	Score	100
Exons	533..649, 634..753, 643..765, 778..804		
Seq. No.	27671	Seq. ID	OJ000150_13.0124.C20
Gene No.	57142	Strand	-
Start	8	End	977
Name	OJ000150_13.0124.C20.o1.tm	Method	TBLASTX:Maize
Start	575	End	914
GI	none	Score	89
Exons	575..649, 643..753, 660..761, 775..846, 852..914		
Seq. No.	27672	Seq. ID	OJ000150_13.0124.C23
Gene No.	57143	Strand	+
Start	1	End	684
Name	OJ000150_13.0124.C23.o1.np	Method	AAT/NAP
Start	1	End	684
GI	6498458	Score	96
Exons	1..96, 499..684		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa]		

Seq. No.	27672	Seq. ID	OJ000150_13.0124.C23
Gene No.	57143	Strand	+
Start	1	End	684
Name	OJ000150_13.0124.C23.o1.gs	Method	GENSCAN
Start	532	End	623
GI	none	Score	.9
Exons	532..623		

Seq. No.	27673	Seq. ID	OJ000150_13.0124.C27
Gene No.	57144	Strand	-
Start	227	End	670
Name	OJ000150_13.0124.C27.o1.gs	Method	GENSCAN
Start	227	End	670
GI	none	Score	.56
Exons	227..324, 562..670		

Seq. No.	27674	Seq. ID	OJ000150_13.0124.C29
Gene No.	57145	Strand	+
Start	104	End	205
Name	OJ000150_13.0124.C29.o1.gs	Method	GENSCAN
Start	104	End	205
GI	none	Score	.62
Exons	104..205		

Seq. No.	27675	Seq. ID	OJ000150_13.0124.C30
Gene No.	57146	Strand	+
Start	1485	End	1887
Name	OJ000150_13.0124.C30.o1.np	Method	AAT/NAP
Start	1485	End	1887
GI	1084462	Score	402
Exons	1485..1887		
GI Descrip.	RCg2 protein - rice gi 786130 (L27209) RCc2 [Oryza sativa] gi 786134 (L27210) root-specific protein [Oryza sativa]		

Seq. No.	27675	Seq. ID	OJ000150_13.0124.C30
Gene No.	57147	Strand	-
Start	1744	End	1904
Name	OJ000150_13.0124.C30.o1.ts	Method	TBLASTX:Soybean
Start	1505	End	1887
GI	none	Score	35
Exons	1505..1522, 1589..1687, 1636..1689, 1728..1880, 1729..1887		

Seq. No.	27675	Seq. ID	OJ000150_13.0124.C30
Gene No.	57147	Strand	-
Start	1744	End	1904
Name	OJ000150_13.0124.C30.o1.tw	Method	TBLASTX:Wheat
Start	1505	End	1836
GI	none	Score	34
Exons	1505..1561, 1574..1624, 1636..1689, 1637..1687, 1653..1712, 1703..1813, 1722..1835, 1723..1836, 1723..1836		

Seq. No.	27675	Seq. ID	OJ000150_13.0124.C30
Gene No.	57147	Strand	-
Start	1744	End	1904
Name	OJ000150_13.0124.C30.o1.tm	Method	TBLASTX:Maize
Start	1556	End	1887
GI	none	Score	120

Exons	1556..1687, 1579..1686, 1690..1743, 1722..1886, 1723..1887		
Seq. No.	27675	Seq. ID	OJ000150_13.0124.C30
Gene No.	57147	Strand	-
Start	1744	End	1904
Name	OJ000150_13.0124.C30.o1.tc	Method	TBLASTX:Cress
Start	1580	End	1904
GI	none	Score	.76
Exons	1580..1726, 1722..1904, 1723..1890		
Seq. No.	27675	Seq. ID	OJ000150_13.0124.C30
Gene No.	57147	Strand	-
Start	1744	End	1904
Name	OJ000150_13.0124.C30.o1.gs	Method	GENSCAN
Start	1744	End	1883
GI	none	Score	.78
Exons	1744..1883		
Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57148	Strand	+
Start	448	End	1911
Name	OJ000150_13.0124.C31.o1.gs	Method	GENSCAN
Start	448	End	1911
GI	none	Score	.4
Exons	448..847, 1862..1911		
Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57149	Strand	+
Start	3841	End	4251
Name	OJ000150_13.0124.C31.o1.np	Method	AAT/NAP
Start	3841	End	4251
GI	1084462	Score	474
Exons	3841..4251		
GI Descrip.	RCg2 protein - rice gi 786130 (L27209) RCc2 [Oryza sativa] gi 786134 (L27210) root-specific protein [Oryza sativa]		
Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57150	Strand	+
Start	6982	End	7395
Name	OJ000150_13.0124.C31.o2.np	Method	AAT/NAP
Start	6982	End	7392
GI	1084462	Score	468
Exons	6982..7392		
GI Descrip.	RCg2 protein - rice gi 786130 (L27209) RCc2 [Oryza sativa] gi 786134 (L27210) root-specific protein [Oryza sativa]		
Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57150	Strand	+
Start	6982	End	7395
Name	OJ000150_13.0124.C31.o3.gs	Method	GENSCAN
Start	6982	End	7395
GI	none	Score	.71
Exons	6982..7395		
Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57151	Strand	+
Start	10036	End	11962

Name	OJ000150_13.0124.C31.o3.np	Method	AAT/NAP
Start	10036	End	11962
GI	3551960	Score	112
Exons	10036..10475, 11943..11962		
GI Descrip.	(AF082033) senescence-associated protein 15 [Hemerocallis hybrid cultivar]		

Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57152	Strand	-
Start	3817	End	5893
Name	OJ000150_13.0124.C31.o2.gs	Method	GENSCAN
Start	3817	End	5893
GI	none	Score	.5
Exons	3817..4203, 5492..5893		

Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57153	Strand	-
Start	8931	End	10489
Name	OJ000150_13.0124.C31.o4.gs	Method	GENSCAN
Start	8931	End	10489
GI	none	Score	.72
Exons	8931..9317, 9941..10022, 10365..10489		

Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57154	Strand	-
Start	13705	End	14883
Name	OJ000150_13.0124.C31.o1.tc	Method	TBLASTX;Cress
Start	3840	End	7395
GI	none	Score	47
Exons	3840..3899, 3841..3900, 4003..4107, 4006..4065, 4087..4254, 4110..4244, 7144..7248, 7228..7395, 7251..7385		

Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57154	Strand	-
Start	13705	End	14883
Name	OJ000150_13.0124.C31.o1.tm	Method	TBLASTX;Maize
Start	3982	End	7392
GI	none	Score	94
Exons	3982..4050, 3982..4050, 4086..4175, 4086..4250, 4087..4251, 4093..4251, 4094..4252, 7122..7190, 7123..7191, 7227..7391, 7227..7391, 7228..7392, 7234..7392		

Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57154	Strand	-
Start	13705	End	14883
Name	OJ000150_13.0124.C31.o1.ts	Method	TBLASTX;Soybean
Start	4006	End	7392
GI	none	Score	84
Exons	4006..4098, 4093..4251, 4095..4244, 4120..4266, 7146..7217, 7147..7239, 7234..7392, 7236..7385, 7252..7392		

Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57154	Strand	-
Start	13705	End	14883
Name	OJ000150_13.0124.C31.o1.tw	Method	TBLASTX;Wheat
Start	4009	End	7392
GI	none	Score	58

Exons 4009..4059, 4009..4059, 4093..4251, 4093..4227, 4095..4244,  
7150..7191, 7234..7392, 7236..7385

Seq. No.	27676	Seq. ID	OJ000150_13.0124.C31
Gene No.	57154	Strand	-
Start	13705	End	14883
Name	OJ000150_13.0124.C31.o5.gs	Method	GENSCAN
Start	13705	End	14883
GI	none	Score	.68
Exons	13705..13884, 13984..14082, 14178..14250, 14352..14418, 14507..14643, 14732..14883		

Seq. No.	27677	Seq. ID	OJ000150_13.0124.C32
Gene No.	57155	Strand	-
Start	1	End	2862
Name	OJ000150_13.0124.C32.o1.np	Method	AAT/NAP
Start	1	End	2862
GI	4680204	Score	912
Exons	1..196, 285..1370, 1462..2862		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	27677	Seq. ID	OJ000150_13.0124.C32
Gene No.	57155	Strand	-
Start	1	End	2862
Name	OJ000150_13.0124.C32.o1.tw	Method	TBLASTX:Wheat
Start	1852	End	2253
GI	none	Score	66
Exons	1852..2022, 1853..1927, 2012..2197, 2017..2253, 2059..2253		

Seq. No.	27678	Seq. ID	OJ000150_13.0124.C33
Gene No.	57156	Strand	+
Start	66	End	251
Name	OJ000150_13.0124.C33.o1.gs	Method	GENSCAN
Start	66	End	251
GI	none	Score	.83
Exons	66..251		

Seq. No.	27678	Seq. ID	OJ000150_13.0124.C33
Gene No.	57157	Strand	-
Start	1073	End	2876
Name	OJ000150_13.0124.C33.o2.gs	Method	GENSCAN
Start	1073	End	2667
GI	none	Score	.57
Exons	1073..1694, 1782..2116, 2489..2667		

Seq. No.	27678	Seq. ID	OJ000150_13.0124.C33
Gene No.	57157	Strand	-
Start	1073	End	2876
Name	OJ000150_13.0124.C33.o1.tw	Method	TBLASTX:Wheat
Start	1148	End	2465
GI	none	Score	52
Exons	1148..1240, 1149..1214, 1229..1297, 1245..1304, 1257..1310, 1305..1463, 1314..1394, 1340..1462, 1410..1505, 1442..1501, 1507..1554, 1508..1552, 1547..2464, 1563..2465		

Seq. No.	27678	Seq. ID	OJ000150_13.0124.C33
Gene No.	57157	Strand	-



Start	1073	End	2876
Name	OJ000150_13.0124.C33.o1.np	Method	AAT/NAP
Start	1632	End	2876
GI	6742729	Score	1850
Exons	1632..2876		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	27678	Seq. ID	OJ000150_13.0124.C33
Gene No.	57157	Strand	-
Start	1073	End	2876
Name	OJ000150_13.0124.C33.o1.tc	Method	TBLASTX:Cress
Start	1730	End	2177
GI	none	Score	95
Exons	1730..1879, 1730..2173, 1734..2177, 1842..2177		

Seq. No.	27678	Seq. ID	OJ000150_13.0124.C33
Gene No.	57157	Strand	-
Start	1073	End	2876
Name	OJ000150_13.0124.C33.o1.tm	Method	TBLASTX:Maize
Start	2108	End	2422
GI	none	Score	133
Exons	2108..2347, 2136..2411, 2390..2422		

Seq. No.	27678	Seq. ID	OJ000150_13.0124.C33
Gene No.	57157	Strand	-
Start	1073	End	2876
Name	OJ000150_13.0124.C33.o2.tw	Method	TBLASTX:Wheat
Start	2466	End	2876
GI	none	Score	59
Exons	2466..2552, 2468..2551, 2561..2827, 2625..2807, 2813..2875, 2826..2876		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57158	Strand	+
Start	2961	End	3305
Name	OJ000150_13.0124.C34.o3.gs	Method	GENSCAN
Start	2961	End	3305
GI	none	Score	.79
Exons	2961..3305		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57159	Strand	+
Start	5993	End	7045
Name	OJ000150_13.0124.C34.o4.gs	Method	GENSCAN
Start	5993	End	7045
GI	none	Score	.51
Exons	5993..7045		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o1.np	Method	AAT/NAP
Start	1	End	1534
GI	4680203	Score	1730
Exons	1..1534		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o2.np	Method	AAT/NAP
Start	1	End	10493
GI	6069667	Score	293
Exons	1..90, 3843..4064, 4096..4115, 4175..4229, 10383..10493		
GI Descrip.	(AP000616) similar to UMP/CMP kinase (AF000147) [Oryza sativa]		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o1.gp	Method	AAT/GAP
Start	56	End	1530
GI	342_1.R1084	Score	2257
Exons	56..1530		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o2.ts	Method	TBLASTX:Soybean
Start	94	End	318
GI	none	Score	195
Exons	94..318		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o1.tm	Method	TBLASTX:Maize
Start	148	End	606
GI	none	Score	91
Exons	148..342, 353..604, 361..606, 367..594		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o3.tw	Method	TBLASTX:Wheat
Start	182	End	330
GI	none	Score	79
Exons	182..283, 187..330, 187..330		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o1.tw	Method	TBLASTX:Wheat
Start	338	End	652
GI	none	Score	277
Exons	338..652, 378..650, 379..651		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o1.tc	Method	TBLASTX:Cress
Start	439	End	749
GI	none	Score	92

Exons 439..684, 458..598, 693..749

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o1.ts	Method	TBLASTX:Soybean
Start	777	End	1067
GI	none	Score	100
Exons	777..842, 849..1067, 853..1059		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o2.tw	Method	TBLASTX:Wheat
Start	834	End	1235
GI	none	Score	158
Exons	834..1091, 839..1081, 847..1089, 849..1100, 850..1092, 1083..1235, 1100..1216		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o2.gs	Method	GENSCAN
Start	1140	End	1541
GI	none	Score	.6
Exons	1140..1541		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o2.gp	Method	AAT/GAP
Start	1403	End	2022
GI	2310235	Score	288
Exons	1403..1541, 1985..2022		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	27679	Seq. ID	OJ000150_13.0124.C34
Gene No.	57160	Strand	-
Start	1	End	10493
Name	OJ000150_13.0124.C34.o4.tw	Method	TBLASTX:Wheat
Start	6215	End	6514
GI	none	Score	183
Exons	6215..6514, 6217..6432		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
Gene No.	57161	Strand	+
Start	847	End	1182
Name	OJ000150_13.0124.C35.o1.gs	Method	GENSCAN
Start	847	End	1182
GI	none	Score	.96
Exons	847..1182		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
Gene No.	57162	Strand	+
Start	6455	End	12172
Name	OJ000150_13.0124.C35.o3.gs	Method	GENSCAN

Start	6455	End	11195
GI	none	Score	.68
Exons	6455..8230, 8310..8597, 11043..11195		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
Gene No.	57162	Strand	+
Start	6455	End	12172
Name	OJ000150_13.0124.C35.o2.np	Method	AAT/NAP
Start	6699	End	8582
GI	2832637	Score	344
Exons	6699..7081, 7162..8582		
GI Descrip.	(AL021711) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
Gene No.	57162	Strand	+
Start	6455	End	12172
Name	OJ000150_13.0124.C35.o5.np	Method	AAT/NAP
Start	10451	End	12172
GI	6815052	Score	188
Exons	10451..10606, 10675..10762, 11430..11514, 12143..12172		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
Gene No.	57163	Strand	-
Start	1	End	5828
Name	OJ000150_13.0124.C35.o1.np	Method	AAT/NAP
Start	1	End	3084
GI	6069667	Score	638
Exons	1..26, 780..941, 1871..1979, 2334..2441, 2937..3084		
GI Descrip.	(AP000616) similar to UMP/CMP kinase (AF000147) [Oryza sativa]		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
Gene No.	57163	Strand	-
Start	1	End	5828
Name	OJ000150_13.0124.C35.o2.gs	Method	GENSCAN
Start	2543	End	5828
GI	none	Score	.7
Exons	2543..2646, 2937..3092, 3179..3216, 4191..4285, 4749..4843, 5222..5523, 5653..5828		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
Gene No.	57164	Strand	
Start	6488	End	6789
Name	OJ000150_13.0124.C35.o1.tc	Method	TBLASTX:Cress
Start	6488	End	6789
GI	none	Score	116
Exons	6488..6631, 6701..6787, 6703..6789		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
Gene No.	57165	Strand	
Start	6703	End	6970
Name	OJ000150_13.0124.C35.o1.tm	Method	TBLASTX:Maize
Start	6703	End	6970
GI	none	Score	157
Exons	6703..6798, 6704..6799, 6875..6970, 6895..6969		

Seq. No.	27680	Seq. ID	OJ000150_13.0124.C35
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Gene No.	57166	Strand	
Start	8426	End	8624
Name	OJ000150_13.0124.C35.o1.ts	Method	TBLASTX:Soybean
Start	8426	End	8624
GI	none	Score	197
Exons	8426..8620, 8436..8624		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57167	Strand	+
Start	129	End	11852
Name	OJ000150_13.0124.C37.o1.gs	Method	GENSCAN
Start	129	End	11312
GI	none	Score	.54
Exons	129..202, 260..324, 1849..1896, 3269..3295, 3344..3447, 3815..3975, 4525..4631, 5049..5161, 5865..6019, 6253..7081, 7144..7537, 8080..8447, 8634..8801, 9105..9572, 9759..10070, 10140..10456, 10583..11312		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57167	Strand	+
Start	129	End	11852
Name	OJ000150_13.0124.C37.o1.np	Method	AAT/NAP
Start	8631	End	11852
GI	3645899	Score	2319
Exons	8631..9942, 9988..11852		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57168	Strand	+
Start	12901	End	21072
Name	OJ000150_13.0124.C37.o2.gs	Method	GENSCAN
Start	12901	End	15758
GI	none	Score	.68
Exons	12901..13032, 13307..13373, 13397..13575, 13929..13953, 14266..14429, 14936..15020, 15571..15758		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57168	Strand	+
Start	12901	End	21072
Name	OJ000150_13.0124.C37.o2.np	Method	AAT/NAP
Start	13037	End	13144
GI	5922619	Score	82
Exons	13037..13144		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016852 dbj BAA85195.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57168	Strand	+
Start	12901	End	21072
Name	OJ000150_13.0124.C37.o3.np	Method	AAT/NAP
Start	13422	End	16547
GI	5922620	Score	462
Exons	13422..13459, 13500..13614, 13929..13953, 14250..14351, 14582..14675, 14723..14899, 14936..15051, 16448..16547		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514)  
corresponds to a region of the predicted gene.; hypothetical  
protein [Oryza sativa]

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57168	Strand	+
Start	12901	End	21072
Name	OJ000150_13.0124.C37.o3.gs	Method	GENSCAN
Start	16304	End	21072
GI	none	Score	.9
Exons	16304..16416, 16693..16768, 17229..17387, 17919..18006, 18012..18190, 20569..20727, 20898..21072		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o2.tw	Method	TBLASTX:Wheat
Start	9057	End	9614
GI	none	Score	100
Exons	9057..9287, 9327..9614, 9440..9613		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o3.tm	Method	TBLASTX:Maize
Start	9282	End	9911
GI	none	Score	80
Exons	9282..9347, 9287..9349, 9348..9770, 9434..9757, 9762..9911		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o3.ts	Method	TBLASTX:Soybean
Start	9456	End	9914
GI	none	Score	176
Exons	9456..9752, 9476..9757, 9789..9914		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o1.ts	Method	TBLASTX:Soybean
Start	10212	End	10825
GI	5509260	Score	47
Exons	10212..10262, 10212..10262, 10275..10514, 10284..10820, 10301..10825		

GI Descrip. -

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o1.tw	Method	TBLASTX:Wheat
Start	10340	End	10814
GI	none	Score	79
Exons	10340..10429, 10341..10430, 10410..10811, 10472..10609, 10631..10801, 10638..10814		

Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
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Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o1.tc	Method	TBLASTX:Cress
Start	10445	End	10706
GI	none	Score	226
Exons	10445..10705, 10446..10706		
Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o2.tm	Method	TBLASTX:Maize
Start	10487	End	10926
GI	none	Score	476
Exons	10487..10861, 10488..10925, 10635..10865, 10873..10926		
Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o3.tw	Method	TBLASTX:Wheat
Start	11001	End	11432
GI	none	Score	99
Exons	11001..11150, 11175..11432		
Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o1.tm	Method	TBLASTX:Maize
Start	11178	End	11834
GI	none	Score	717
Exons	11178..11834, 11186..11803, 11466..11819		
Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o2.ts	Method	TBLASTX:Soybean
Start	11196	End	11864
GI	none	Score	284
Exons	11196..11567, 11300..11542, 11604..11864, 11618..11788		
Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o2.tc	Method	TBLASTX:Cress
Start	11469	End	11789
GI	none	Score	74
Exons	11469..11600, 11621..11737, 11622..11789		
Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-
Start	16687	End	18031
Name	OJ000150_13.0124.C37.o4.tw	Method	TBLASTX:Wheat
Start	11469	End	11789
GI	none	Score	90
Exons	11469..11597, 11598..11789, 11613..11789		
Seq. No.	27681	Seq. ID	OJ000150_13.0124.C37
Gene No.	57169	Strand	-

Start	16687	End	18031
Name	OJ000150_13.0124.C37.o4.np	Method	AAT/NAP
Start	16687	End	18031
GI	6630699	Score	71
Exons	16687..16765, 18009..18031		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	27682	Seq. ID	OJ000150_13.0124.C38
Gene No.	57170	Strand	+
Start	8860	End	9538
Name	OJ000150_13.0124.C38.o3.gs	Method	GENSCAN
Start	8860	End	9538
GI	none	Score	.92
Exons	8860..8879, 9244..9538		

Seq. No.	27682	Seq. ID	OJ000150_13.0124.C38
Gene No.	57171	Strand	+
Start	10775	End	13349
Name	OJ000150_13.0124.C38.o4.gs	Method	GENSCAN
Start	10775	End	13349
GI	none	Score	.63
Exons	10775..10885, 11067..11206, 12819..13075, 13077..13184, 13243..13349		

Seq. No.	27682	Seq. ID	OJ000150_13.0124.C38
Gene No.	57172	Strand	-
Start	27	End	1802
Name	OJ000150_13.0124.C38.o1.gs	Method	GENSCAN
Start	27	End	1802
GI	none	Score	.6
Exons	27..106, 258..426, 527..698, 993..1367, 1707..1802		

Seq. No.	27682	Seq. ID	OJ000150_13.0124.C38
Gene No.	57173	Strand	-
Start	13507	End	14464
Name	OJ000150_13.0124.C38.o1.tm	Method	TBLASTX:Maize
Start	4273	End	4622
GI	none	Score	77
Exons	4273..4380, 4274..4417, 4426..4500, 4509..4622		

Seq. No.	27682	Seq. ID	OJ000150_13.0124.C38
Gene No.	57173	Strand	-
Start	13507	End	14464
Name	OJ000150_13.0124.C38.o5.gs	Method	GENSCAN
Start	13507	End	14464
GI	none	Score	.75
Exons	13507..13580, 14392..14464		

Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57174	Strand	+
Start	1	End	3195
Name	OJ000150_13.0124.C41.o1.np	Method	AAT/NAP
Start	1	End	3195
GI	6503010	Score	1075
Exons	1..59, 154..356, 895..1136, 1842..2629, 3150..3195		



GI Descrip. (AF174427) formin-like protein AHF1 [Arabidopsis thaliana]

Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57174	Strand	+
Start	1	End	3195
Name	OJ000150_13.0124.C41.o1.gs	Method	GENSCAN
Start	154	End	2633
GI	none	Score	.92
Exons	154..356, 895..1136, 1842..2633		

Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57175	Strand	+
Start	8209	End	9679
Name	OJ000150_13.0124.C41.o3.gs	Method	GENSCAN
Start	8209	End	9679
GI	none	Score	.81
Exons	8209..8428, 9171..9239, 9450..9679		

Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o2.np	Method	AAT/NAP
Start	1	End	10482
GI	6498423	Score	192
Exons	1..29, 6341..6595, 10165..10482		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o1.tm	Method	TBLASTX:Maize
Start	178	End	1928
GI	none	Score	136
Exons	178..357, 196..390, 197..388, 894..1136, 897..1124, 898..1140, 902..1138, 1839..1928, 1840..1926, 1859..1927		

Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o1.tc	Method	TBLASTX:Cress
Start	242	End	2060
GI	none	Score	66
Exons	242..334, 896..952, 897..992, 999..1136, 1001..1135, 1839..2060, 1865..2044, 1866..2057		

Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o3.ts	Method	TBLASTX:Soybean
Start	256	End	1135
GI	none	Score	135
Exons	256..375, 257..394, 884..955, 891..983, 894..983, 999..1133, 999..1100, 1001..1135		

Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648

Name	OJ000150_13.0124.C41.o2.ts	Method	TBLASTX:Soybean
Start	1839	End	2174
GI	none	Score	280
Exons	1839..2063, 1865..2044, 2028..2174		
Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o2.tm	Method	TBLASTX:Maize
Start	1928	End	2270
GI	none	Score	176
Exons	1928..2044, 1929..2060, 2055..2270, 2123..2251		
Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o1.ts	Method	TBLASTX:Soybean
Start	2175	End	2621
GI	none	Score	91
Exons	2175..2300, 2175..2234, 2286..2501, 2288..2494, 2505..2621		
Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o3.tm	Method	TBLASTX:Maize
Start	2289	End	2528
GI	none	Score	230
Exons	2289..2528, 2294..2494		
Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o2.gs	Method	GENSCAN
Start	3197	End	6677
GI	none	Score	.69
Exons	3197..3199, 4241..4361, 5297..5378, 6590..6677		
Seq. No.	27683	Seq. ID	OJ000150_13.0124.C41
Gene No.	57176	Strand	-
Start	1	End	10648
Name	OJ000150_13.0124.C41.o4.gs	Method	GENSCAN
Start	9915	End	10648
GI	none	Score	.48
Exons	9915..10507, 10560..10648		
Seq. No.	27684	Seq. ID	OJ000150_13.0124.C43
Gene No.	57177	Strand	+
Start	57	End	422
Name	OJ000150_13.0124.C43.o1.gs	Method	GENSCAN
Start	57	End	422
GI	none	Score	.71
Exons	57..162, 189..422		
Seq. No.	27685	Seq. ID	OJ000150_13.0124.C44
Gene No.	57178	Strand	+
Start	139	End	234
Name	OJ000150_13.0124.C44.o1.gs	Method	GENSCAN

Start	139	End	234
GI	none	Score	.82
Exons	139..234		

Seq. No.	27686	Seq. ID	OJ000150_13.0124.C47
Gene No.	57179	Strand	
Start	31	End	455
Name	OJ000150_13.0124.C47.o1.tm	Method	TBLASTX:Maize
Start	31	End	345
GI	none	Score	134
Exons	31..180, 32..160, 153..188, 181..345, 207..338		

Seq. No.	27686	Seq. ID	OJ000150_13.0124.C47
Gene No.	57179	Strand	
Start	31	End	455
Name	OJ000150_13.0124.C47.o1.tw	Method	TBLASTX:Wheat
Start	184	End	455
GI	none	Score	109
Exons	184..321, 238..318, 333..455		

Seq. No.	27687	Seq. ID	OJ000150_13.0124.C51
Gene No.	57180	Strand	+
Start	1	End	287
Name	OJ000150_13.0124.C51.o1.np	Method	AAT/NAP
Start	1	End	272
GI	2492582	Score	204
Exons	1..272		
GI Descrip.	HYPOTHETICAL ABC TRANSPORTER ATP-BINDING PROTEIN MG180 HOMOLOG gi 2127613 pir  S62814 glutamine transport protein homolog GlnQ - Mycoplasma pneumoniae (SGC3) gi 2146154 pir  S73963 histidine transport ATP-binding protein hisP - Mycoplasma pneumoniae (SGC3) (ATCC 29342) gi 1215694 (U34795) GlnQ [Mycoplasma pneumoniae] gi 1674342 (AE000061) Mycoplasma pneumoniae, his		

Seq. No.	27687	Seq. ID	OJ000150_13.0124.C51
Gene No.	57180	Strand	+
Start	1	End	287
Name	OJ000150_13.0124.C51.o1.gs	Method	GENSCAN
Start	21	End	287
GI	none	Score	.64
Exons	21..69, 163..287		

Seq. No.	27687	Seq. ID	OJ000150_13.0124.C51
Gene No.	57181	Strand	+
Start	271	End	616
Name	OJ000150_13.0124.C51.o2.np	Method	AAT/NAP
Start	271	End	616
GI	1351502	Score	242
Exons	271..616		
GI Descrip.	HYPOTHETICAL PROTEIN MG181 gi 1361629 pir  A64220 hypothetical protein MG181 - Mycoplasma genitalium (SGC3) gi 3844777 (U39697) conserved hypothetical protein [Mycoplasma genitalium]		

Seq. No.	27688	Seq. ID	OJ000150_13.0124.C53
Gene No.	57182	Strand	+
Start	1	End	636
Name	OJ000150_13.0124.C53.o1.np	Method	AAT/NAP

Start	1	End	636
GI	6503010	Score	292
Exons	1..300, 395..636		
GI Descrip.	(AF174427) formin-like protein AHF1 [Arabidopsis thaliana]		

Seq. No.	27688	Seq. ID	OJ000150_13.0124.C53
Gene No.	57182	Strand	+
Start	1	End	636
Name	OJ000150_13.0124.C53.o1.gs	Method	GENSCAN
Start	128	End	597
GI	none	Score	.96
Exons	128..285, 395..597		

Seq. No.	27688	Seq. ID	OJ000150_13.0124.C53
Gene No.	57182	Strand	+
Start	1	End	636
Name	OJ000150_13.0124.C53.o1.tc	Method	TBLASTX:Cress
Start	187	End	635
GI	none	Score	138
Exons	187..303, 188..304, 383..424, 399..437, 480..635, 482..616		

Seq. No.	27688	Seq. ID	OJ000150_13.0124.C53
Gene No.	57182	Strand	+
Start	1	End	636
Name	OJ000150_13.0124.C53.o1.tm	Method	TBLASTX:Maize
Start	419	End	631
GI	none	Score	136
Exons	419..598, 437..631, 438..629		

Seq. No.	27689	Seq. ID	OJ000150_13.0124.C55
Gene No.	57183	Strand	-
Start	1	End	759
Name	OJ000150_13.0124.C55.o1.np	Method	AAT/NAP
Start	1	End	759
GI	5922620	Score	215
Exons	1..158, 206..299, 530..759		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27689	Seq. ID	OJ000150_13.0124.C55
Gene No.	57183	Strand	-
Start	1	End	759
Name	OJ000150_13.0124.C55.o1.gs	Method	GENSCAN
Start	437	End	615
GI	none	Score	.43
Exons	437..615		

Seq. No.	27690	Seq. ID	OJ000150_13.0124.C57
Gene No.	57184	Strand	+
Start	1	End	305
Name	OJ000150_13.0124.C57.o1.gp	Method	AAT/GAP
Start	1	End	305
GI	61605_1.R1084	Score	483
Exons	1..305		

GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	27691	Seq. ID	OJ000150_13.0124.C60
Gene No.	57185	Strand	+
Start	590	End	680
Name	OJ000150_13.0124.C60.o1.gs	Method	GENSCAN
Start	590	End	680
GI	none	Score	.49
Exons	590..680		

Seq. No.	27692	Seq. ID	OJ000150_13.0124.C61
Gene No.	57186	Strand	-
Start	474	End	817
Name	OJ000150_13.0124.C61.o1.np	Method	AAT/NAP
Start	474	End	817
GI	6069667	Score	166
Exons	474..670, 702..817		
GI Descrip.	(AP000616) similar to UMP/CMP kinase (AF000147) [Oryza sativa]		

Seq. No.	27693	Seq. ID	OJ000150_13.0124.C62
Gene No.	57187	Strand	+
Start	76	End	608
Name	OJ000150_13.0124.C62.o1.gs	Method	GENSCAN
Start	76	End	608
GI	none	Score	.45
Exons	76..608		

Seq. No.	27694	Seq. ID	OJ000150_13.0124.C65
Gene No.	57188	Strand	-
Start	63	End	266
Name	OJ000150_13.0124.C65.o1.gs	Method	GENSCAN
Start	63	End	266
GI	none	Score	.97
Exons	63..266		

Seq. No.	27695	Seq. ID	OJ000150_12.0124.C1
Gene No.	57189	Strand	+
Start	1	End	354
Name	OJ000150_12.0124.C1.o1.np	Method	AAT/NAP
Start	1	End	354
GI	4585998	Score	223
Exons	1..354		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27695	Seq. ID	OJ000150_12.0124.C1
Gene No.	57190	Strand	-
Start	13	End	309
Name	OJ000150_12.0124.C1.o1.gs	Method	GENSCAN
Start	13	End	309
GI	none	Score	.7
Exons	13..309		

Seq. No.	27696	Seq. ID	OJ000150_12.0124.C2
Gene No.	57191	Strand	+
Start	1	End	607
Name	OJ000150_12.0124.C2.o1.np	Method	AAT/NAP

Start 1 End 607  
 GI 4574135 Score 79  
 Exons 1..67, 222..316, 490..607  
 GI Descrip. (AF073695) cysteine synthase [Oryza sativa]

Seq. No. 27696 Seq. ID OJ000150\_12.0124.C2  
 Gene No. 57191 Strand +  
 Start 1 End 607  
 Name OJ000150\_12.0124.C2.o1.gp Method AAT/GAP  
 Start 222 End 305  
 GI 877\_1.R1084 Score 118  
 Exons 222..305  
 GI Descrip. '4574135/gb|AAD23907.1|AF073695\_1 1.0e-169 (AF073695) cysteine synthase [Oryza sativa]'

Seq. No. 27697 Seq. ID OJ000150\_12.0124.C3  
 Gene No. 57192 Strand +  
 Start 576 End 658  
 Name OJ000150\_12.0124.C3.o2.gp Method AAT/GAP  
 Start 576 End 658  
 GI 38012\_1.R1084 Score 99  
 Exons 576..658  
 GI Descrip. '4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'

Seq. No. 27697 Seq. ID OJ000150\_12.0124.C3  
 Gene No. 57193 Strand -  
 Start 336 End 522  
 Name OJ000150\_12.0124.C3.o1.gp Method AAT/GAP  
 Start 336 End 522  
 GI 15870\_2.R1084 Score 268  
 Exons 336..522  
 GI Descrip. '287403/dbj|D10838|RICSBE1 8.0e-69 Rice gene for starch branching enzyme'

Seq. No. 27698 Seq. ID OJ000150\_12.0124.C5  
 Gene No. 57194 Strand +  
 Start 56 End 139  
 Name OJ000150\_12.0124.C5.o1.gp Method AAT/GAP  
 Start 56 End 139  
 GI LIB3477-003-P1-K1-E9 Score 90  
 Exons 56..139  
 GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No. 27699 Seq. ID OJ000150\_12.0124.C6  
 Gene No. 57195 Strand -  
 Start 1 End 550  
 Name OJ000150\_12.0124.C6.o1.np Method AAT/NAP  
 Start 1 End 550  
 GI 2126090 Score 826  
 Exons 1..550  
 GI Descrip. transposase (insertion sequence IS10) - Escherichia coli gi|455676|bbs|140379 (S67119) transposase [Escherichia coli, LBB84, plasmid pXT107, IS10L/R-1, Peptide PlasmidTransposonInsertionMutant, 402 aa] [Escherichia coli]

gi|6634720|gb|AAF19728.1|AC012463\_2 (AC012463) T2E6.2  
[Arabidopsis thaliana]

Seq. No.	27699	Seq. ID	OJ000150_12.0124.C6
Gene No.	57195	Strand	-
Start	1	End	550
Name	OJ000150_12.0124.C6.ol.gs	Method	GENSCAN
Start	176	End	451
GI	none	Score	.49
Exons	176..451		

Seq. No.	27700	Seq. ID	OJ000150_12.0124.C8
Gene No.	57196	Strand	+
Start	1	End	1691
Name	OJ000150_12.0124.C8.ol.np	Method	AAT/NAP
Start	1	End	1691
GI	2738248	Score	1114
Exons	1..349, 478..558, 651..817, 898..1003, 1156..1406, 1495..1567, 1653..1691		
GI Descrip.	(U97200) cobalamin-independent methionine synthase [Arabidopsis thaliana]		

Seq. No.	27700	Seq. ID	OJ000150_12.0124.C8
Gene No.	57196	Strand	+
Start	1	End	1691
Name	OJ000150_12.0124.C8.ol.gp	Method	AAT/GAP
Start	195	End	1691
GI	183_3.R1084	Score	1500
Exons	195..349, 478..558, 651..817, 898..1003, 1156..1406, 1495..1567, 1653..1691		
GI Descrip.	'1362086/pir  S57636 0.0e+00 5-methyltetrahydropteroyltriglutamate--homocysteine S-methyltransferase (EC 2.1.1.14) - Madagascar periwinkle >gi_2129919_pir_S65957 5-methyltetrahydropteroyltriglutamate--homocysteine S-methyltransferase (EC 2.1.1.14) - Madagascar periwinkle >gi_886471_emb_CAA58474_ (X83499) methionine synthase [Catharanthus roseus]'		

Seq. No.	27700	Seq. ID	OJ000150_12.0124.C8
Gene No.	57196	Strand	+
Start	1	End	1691
Name	OJ000150_12.0124.C8.ol.tc	Method	TBLASTX:Cress
Start	199	End	1570
GI	none	Score	220
Exons	199..348, 200..361, 475..564, 510..569, 650..817, 651..818, 652..825, 673..837, 896..1024, 900..998, 1153..1407, 1155..1412, 1155..1406, 1492..1569, 1499..1570		

Seq. No.	27700	Seq. ID	OJ000150_12.0124.C8
Gene No.	57196	Strand	+
Start	1	End	1691
Name	OJ000150_12.0124.C8.ol.tm	Method	TBLASTX:Maize
Start	199	End	1570
GI	none	Score	224
Exons	199..348, 200..361, 412..570, 475..564, 650..817, 651..818, 673..843, 896..1024, 897..1001, 899..1030, 900..1031,		

1153..1407, 1153..1407, 1155..1409, 1155..1412, 1492..1569,  
1499..1570

Seq. No.	27700	Seq. ID	OJ000150_12.0124.C8
Gene No.	57196	Strand	+
Start	1	End	1691
Name	OJ000150_12.0124.C8.o1.ts	Method	TBLASTX:Soybean
Start	199	End	1570
GI	none	Score	207
Exons	199..348, 200..361, 222..350, 477..560, 478..564, 650..814, 651..818, 652..822, 894..989, 896..1024, 1151..1399, 1153..1440, 1153..1404, 1155..1412, 1492..1569, 1499..1570		

Seq. No.	27700	Seq. ID	OJ000150_12.0124.C8
Gene No.	57196	Strand	+
Start	1	End	1691
Name	OJ000150_12.0124.C8.o1.gs	Method	GENSCAN
Start	218	End	1567
GI	none	Score	.81
Exons	218..349, 427..558, 651..817, 898..1003, 1156..1406, 1495..1567		

Seq. No.	27700	Seq. ID	OJ000150_12.0124.C8
Gene No.	57196	Strand	+
Start	1	End	1691
Name	OJ000150_12.0124.C8.o2.tw	Method	TBLASTX:Wheat
Start	308	End	940
GI	none	Score	72
Exons	308..361, 310..348, 311..349, 445..570, 475..564, 650..817, 651..818, 669..818, 897..935, 898..939, 899..940		

Seq. No.	27700	Seq. ID	OJ000150_12.0124.C8
Gene No.	57196	Strand	+
Start	1	End	1691
Name	OJ000150_12.0124.C8.o1.tw	Method	TBLASTX:Wheat
Start	945	End	1572
GI	none	Score	96
Exons	945..998, 947..1024, 968..1030, 1153..1407, 1155..1409, 1155..1412, 1492..1572, 1494..1568		

Seq. No.	27701	Seq. ID	OJ000150_12.0124.C9
Gene No.	57197	Strand	-
Start	15	End	89
Name	OJ000150_12.0124.C9.o1.gs	Method	GENSCAN
Start	15	End	89
GI	none	Score	.84
Exons	15..89		

Seq. No.	27702	Seq. ID	OJ000150_12.0124.C11
Gene No.	57198	Strand	+
Start	42	End	301
Name	OJ000150_12.0124.C11.o1.gp	Method	AAT/GAP
Start	42	End	301
GI	LIB3431-010-P1-N1-F11	Score	453
Exons	42..301		
GI Descrip.	'287403/dbj D10838 RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		



Seq. No.	27702	Seq. ID	OJ000150_12.0124.C11
Gene No.	57199	Strand	+
Start	2971	End	4203
Name	OJ000150_12.0124.C11.o2.gp	Method	AAT/GAP
Start	2971	End	4147
GI	28254_1.R1084	Score	945
Exons	2971..3226, 3800..3933, 4023..4147		
GI Descrip.	'3874228/emb CAA90105.1  4.0e-20 (Z49909) cDNA EST CEMSF21F comes from this gene; cDNA EST EMBL:D73546 comes from this gene; cDNA EST EMBL:D73669 comes from this gene; cDNA EST EMBL:D70979 comes from this gene; cDNA EST EMBL:D71075 comes from this gene; cDNA'		

Seq. No.	27702	Seq. ID	OJ000150_12.0124.C11
Gene No.	57199	Strand	+
Start	2971	End	4203
Name	OJ000150_12.0124.C11.o1.np	Method	AAT/NAP
Start	3071	End	4203
GI	6735330	Score	397
Exons	3071..3226, 3800..3921, 4023..4203		
GI Descrip.	(AL137081) putative protein [Arabidopsis thaliana]		

Seq. No.	27702	Seq. ID	OJ000150_12.0124.C11
Gene No.	57200	Strand	-
Start	884	End	1128
Name	OJ000150_12.0124.C11.o1.gs	Method	GENSCAN
Start	884	End	1128
GI	none	Score	.87
Exons	884..957, 975..1128		

Seq. No.	27702	Seq. ID	OJ000150_12.0124.C11
Gene No.	57201	Strand	-
Start	2911	End	3153
Name	OJ000150_12.0124.C11.o2.gs	Method	GENSCAN
Start	2911	End	3153
GI	none	Score	.99
Exons	2911..3153		

Seq. No.	27702	Seq. ID	OJ000150_12.0124.C11
Gene No.	57202	Strand	
Start	3098	End	4148
Name	OJ000150_12.0124.C11.o1.tm	Method	TBLASTX:Maize
Start	3098	End	4148
GI	none	Score	130
Exons	3098..3199, 3100..3153, 3196..3228, 3798..3932, 3799..3933, 3811..3885, 4012..4128, 4017..4148, 4022..4144, 4092..4148		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57203	Strand	+
Start	1	End	1712
Name	OJ000150_12.0124.C12.o1.np	Method	AAT/NAP
Start	1	End	1580
GI	6735330	Score	721
Exons	1..232, 334..564, 651..785, 1228..1354, 1450..1580		
GI Descrip.	(AL137081) putative protein [Arabidopsis thaliana]		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
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Gene No.	57203	Strand	+
Start	1	End	1712
Name	OJ000150_12.0124.C12.o1.gp	Method	AAT/GAP
Start	109	End	730
GI	28254_1.R1084	Score	813
Exons	109..244, 334..560, 647..730		
GI Descrip.	'3874228/emb CAA90105.1  4.0e-20 (Z49909) cDNA EST CEMSF21F comes from this gene; cDNA EST EMBL:D73546 comes from this gene; cDNA EST EMBL:D73669 comes from this gene; cDNA EST EMBL:D70979 comes from this gene; cDNA EST EMBL:D71075 comes from this gene; cDNA'		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57203	Strand	+
Start	1	End	1712
Name	OJ000150_12.0124.C12.o1.gs	Method	GENSCAN
Start	111	End	1712
GI	none	Score	.86
Exons	111..244, 334..602, 647..785, 1228..1354, 1450..1568, 1686..1712		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57204	Strand	-
Start	2758	End	9427
Name	OJ000150_12.0124.C12.o2.gs	Method	GENSCAN
Start	2758	End	8109
GI	none	Score	.69
Exons	2758..2864, 3142..3261, 3501..4086, 4128..4300, 5984..6203, 6406..6448, 6773..6903, 7031..7274, 7904..8109		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57204	Strand	-
Start	2758	End	9427
Name	OJ000150_12.0124.C12.o2.np	Method	AAT/NAP
Start	5858	End	9321
GI	585957	Score	298
Exons	5858..5907, 5984..6176, 6406..6541, 6773..6920, 7051..7410, 7904..8153, 9081..9321		
GI Descrip.	PROTEIN TRANSPORT PROTEIN SEC61 ALPHA SUBUNIT. gi 346439 pir  A44170 membrane-bound ribosome-associated translocating polypeptide Sec6lp - dog gi 164070 (M96629) homologue to sec61 [Canis familiaris]		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57204	Strand	-
Start	2758	End	9427
Name	OJ000150_12.0124.C12.o3.gs	Method	GENSCAN
Start	9053	End	9427
GI	none	Score	.98
Exons	9053..9427		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57205	Strand	-
Start	10789	End	11458
Name	OJ000150_12.0124.C12.o1.tm	Method	TBLASTX:Maize
Start	109	End	1350
GI	none	Score	208
Exons	109..243, 110..244, 323..574, 329..508, 354..539, 644..721,		

645..722, 648..785, 720..785, 1225..1350, 1226..1279,  
1231..1278, 1239..1349

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57205	Strand	-
Start	10789	End	11458
Name	OJ000150_12.0124.C12.o1.tw	Method	TBLASTX:Wheat
Start	125	End	1714
GI	none	Score	110
Exons	125..244, 131..214, 741..788, 1225..1353, 1239..1355, 1239..1352, 1433..1558, 1445..1567, 1446..1568, 1446..1568, 1662..1691, 1669..1713, 1670..1714		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57205	Strand	-
Start	10789	End	11458
Name	OJ000150_12.0124.C12.o2.tm	Method	TBLASTX:Maize
Start	1445	End	1572
GI	none	Score	199
Exons	1445..1567, 1446..1568, 1446..1568, 1447..1572		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57205	Strand	-
Start	10789	End	11458
Name	OJ000150_12.0124.C12.o4.gs	Method	GENSCAN
Start	10789	End	11458
GI	none	Score	.78
Exons	10789..10926, 11405..11458		

Seq. No.	27703	Seq. ID	OJ000150_12.0124.C12
Gene No.	57206	Strand	-
Start	11375	End	11707
Name	OJ000150_12.0124.C12.o2.tw	Method	TBLASTX:Wheat
Start	11375	End	11707
GI	none	Score	57
Exons	11375..11593, 11529..11594, 11600..11707		

Seq. No.	27704	Seq. ID	OJ000150_12.0124.C14
Gene No.	57207	Strand	-
Start	1	End	535
Name	OJ000150_12.0124.C14.o1.np	Method	AAT/NAP
Start	1	End	535
GI	6907086	Score	223
Exons	1..403, 461..535		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27705	Seq. ID	OJ000150_12.0124.C15
Gene No.	57208	Strand	+
Start	1	End	127
Name	OJ000150_12.0124.C15.o1.np	Method	AAT/NAP
Start	1	End	127
GI	6815072	Score	83
Exons	1..127		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	27706	Seq. ID	OJ000150_12.0124.C19
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Gene No.	57209	Strand	-
Start	353	End	553
Name	OJ000150_12.0124.C19.o1.gs	Method	GENSCAN
Start	353	End	553
GI	none	Score	.51
Exons	353..553		

Seq. No.	27707	Seq. ID	OJ000150_12.0124.C20
Gene No.	57210	Strand	+
Start	1	End	232
Name	OJ000150_12.0124.C20.o1.np	Method	AAT/NAP
Start	1	End	229
GI	1362086	Score	277
Exons	1..229		
GI Descrip.	5-methyltetrahydropteroyltriglutamate--homocysteine S-methyltransferase (EC 2.1.1.14) - Madagascar periwinkle gi 2129919 pir  S65957 5-methyltetrahydropteroyltriglutamate--homocysteine S-methyltransferase (EC 2.1.1.14) - Madagascar periwinkle gi 886471 emb CAA58474  (X83499) methionine synthase [Catharanthus roseus]		

Seq. No.	27707	Seq. ID	OJ000150_12.0124.C20
Gene No.	57210	Strand	+
Start	1	End	232
Name	OJ000150_12.0124.C20.o1.gs	Method	GENSCAN
Start	46	End	232
GI	none	Score	.79
Exons	46..232		

Seq. No.	27707	Seq. ID	OJ000150_12.0124.C20
Gene No.	57211	Strand	-
Start	873	End	1621
Name	OJ000150_12.0124.C20.o1.tc	Method	TBLASTX:Cress
Start	43	End	264
GI	none	Score	278
Exons	43..231, 44..232, 56..235, 78..242, 79..264		

Seq. No.	27707	Seq. ID	OJ000150_12.0124.C20
Gene No.	57211	Strand	-
Start	873	End	1621
Name	OJ000150_12.0124.C20.o1.ts	Method	TBLASTX:Soybean
Start	43	End	222
GI	none	Score	269
Exons	43..222, 44..220		

Seq. No.	27707	Seq. ID	OJ000150_12.0124.C20
Gene No.	57211	Strand	-
Start	873	End	1621
Name	OJ000150_12.0124.C20.o1.tw	Method	TBLASTX:Wheat
Start	43	End	256
GI	none	Score	272
Exons	43..255, 44..256, 44..256		

Seq. No.	27707	Seq. ID	OJ000150_12.0124.C20
Gene No.	57211	Strand	-
Start	873	End	1621

Name	OJ000150_12.0124.C20.o1.tm	Method	TBLASTX:Maize
Start	43	End	238
GI	none	Score	302
Exons	43..237, 44..238		
Seq. No.	27707	Seq. ID	OJ000150_12.0124.C20
Gene No.	57211	Strand	-
Start	873	End	1621
Name	OJ000150_12.0124.C20.o2.gs	Method	GENSCAN
Start	873	End	1621
GI	none	Score	.68
Exons	873..1190, 1311..1621		
Seq. No.	27708	Seq. ID	OJ000150_12.0124.C21
Gene No.	57212	Strand	+
Start	3228	End	4883
Name	OJ000150_12.0124.C21.o1.np	Method	AAT/NAP
Start	3228	End	4883
GI	4587554	Score	264
Exons	3228..3266, 4402..4828, 4865..4883		
GI Descrip.	(AC006577) Similar to gb AJ005701 Na/Ca,K-exchanger from Caenorhabditis elegans. ESTs gb T04173 and gb AA585918 come from this gene. [Arabidopsis thaliana]		
Seq. No.	27708	Seq. ID	OJ000150_12.0124.C21
Gene No.	57213	Strand	-
Start	1141	End	4818
Name	OJ000150_12.0124.C21.o1.gs	Method	GENSCAN
Start	1141	End	4743
GI	none	Score	.78
Exons	1141..1364, 2443..2629, 2959..3004, 3088..3098, 4336..4548, 4594..4743		
Seq. No.	27708	Seq. ID	OJ000150_12.0124.C21
Gene No.	57213	Strand	-
Start	1141	End	4818
Name	OJ000150_12.0124.C21.o1.ts	Method	TBLASTX:Soybean
Start	4501	End	4818
GI	none	Score	99
Exons	4501..4629, 4674..4817, 4687..4818		
Seq. No.	27709	Seq. ID	OJ000150_12.0124.C22
Gene No.	57214	Strand	+
Start	1	End	487
Name	OJ000150_12.0124.C22.o1.np	Method	AAT/NAP
Start	1	End	487
GI	4587554	Score	333
Exons	1..487		
GI Descrip.	(AC006577) Similar to gb AJ005701 Na/Ca,K-exchanger from Caenorhabditis elegans. ESTs gb T04173 and gb AA585918 come from this gene. [Arabidopsis thaliana]		
Seq. No.	27709	Seq. ID	OJ000150_12.0124.C22
Gene No.	57215	Strand	-
Start	463	End	833
Name	OJ000150_12.0124.C22.o1.tm	Method	TBLASTX:Maize
Start	3	End	272

GI	none	Score	206
Exons	3..179, 6..113, 171..272, 185..271		
Seq. No.	27709	Seq. ID	OJ000150_12.0124.C22
Gene No.	57215	Strand	-
Start	463	End	833
Name	OJ000150_12.0124.C22.o1.gp	Method	AAT/GAP
Start	463	End	833
GI	uC-osflcyp149c10a1	Score	735
Exons	463..833		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	27710	Seq. ID	OJ000150_12.0124.C23
Gene No.	57216	Strand	+
Start	4306	End	6564
Name	OJ000150_12.0124.C23.o1.np	Method	AAT/NAP
Start	4306	End	6564
GI	1165322	Score	314
Exons	4306..5045, 6514..6564		
GI Descrip.	(U44838) extensin [Glycine max]		

Seq. No.	27710	Seq. ID	OJ000150_12.0124.C23
Gene No.	57216	Strand	+
Start	4306	End	6564
Name	OJ000150_12.0124.C23.o2.gp	Method	AAT/GAP
Start	5979	End	6061
GI	38012_1.R1084	Score	99
Exons	5979..6061		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	27710	Seq. ID	OJ000150_12.0124.C23
Gene No.	57217	Strand	+
Start	7871	End	10428
Name	OJ000150_12.0124.C23.o2.np	Method	AAT/NAP
Start	7871	End	10428
GI	6016874	Score	1784
Exons	7871..7949, 8033..8170, 8235..8467, 8858..9017, 9411..9590, 9708..10047, 10358..10428		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	27710	Seq. ID	OJ000150_12.0124.C23
Gene No.	57217	Strand	+
Start	7871	End	10428
Name	OJ000150_12.0124.C23.o3.gs	Method	GENSCAN
Start	7871	End	10051
GI	none	Score	.53
Exons	7871..8117, 8235..8323, 8858..9017, 9591..10051		

Seq. No.	27710	Seq. ID	OJ000150_12.0124.C23
Gene No.	57217	Strand	+
Start	7871	End	10428
Name	OJ000150_12.0124.C23.o3.gp	Method	AAT/GAP
Start	8560	End	9068

GI uC-osflcyp110c07b1 Score 958  
 Exons 8560..9068  
 GI Descrip. '4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'

Seq. No. 27710 Seq. ID OJ000150\_12.0124.C23  
 Gene No. 57218 Strand -  
 Start 1383 End 5072  
 Name OJ000150\_12.0124.C23.o2.gs Method GENSCAN  
 Start 1383 End 5072  
 GI none Score .83  
 Exons 1383..1477, 1523..1560, 1644..2731, 2994..3113, 3864..3907, 4046..4094, 4290..5072

Seq. No. 27710 Seq. ID OJ000150\_12.0124.C23  
 Gene No. 57219 Strand -  
 Start 5739 End 5925  
 Name OJ000150\_12.0124.C23.o1.gp Method AAT/GAP  
 Start 5739 End 5925  
 GI 15870\_2.R1084 Score 267  
 Exons 5739..5925  
 GI Descrip. '287403/dbj|D10838|RICSBE1 8.0e-69 Rice gene for starch branching enzyme'

Seq. No. 27710 Seq. ID OJ000150\_12.0124.C23  
 Gene No. 57220 Strand -  
 Start 8219 End 8665  
 Name OJ000150\_12.0124.C23.o1.tm Method TBLASTX:Maize  
 Start 8219 End 8665  
 GI none Score 69  
 Exons 8219..8305, 8290..8499, 8291..8569, 8570..8632, 8627..8665

Seq. No. 27710 Seq. ID OJ000150\_12.0124.C23  
 Gene No. 57221 Strand -  
 Start 8759 End 9073  
 Name OJ000150\_12.0124.C23.o3.tm Method TBLASTX:Maize  
 Start 8759 End 9073  
 GI none Score 65  
 Exons 8759..8833, 8846..9073, 8854..9072

Seq. No. 27710 Seq. ID OJ000150\_12.0124.C23  
 Gene No. 57222 Strand -  
 Start 9278 End 9630  
 Name OJ000150\_12.0124.C23.o4.tm Method TBLASTX:Maize  
 Start 9278 End 9630  
 GI none Score 240  
 Exons 9278..9559, 9289..9630

Seq. No. 27710 Seq. ID OJ000150\_12.0124.C23  
 Gene No. 57223 Strand -  
 Start 9742 End 9985  
 Name OJ000150\_12.0124.C23.o2.tm Method TBLASTX:Maize  
 Start 9742 End 9985  
 GI none Score 282  
 Exons 9742..9900, 9752..9985

Seq. No. 27711  
 Gene No. 57224  
 Start 538  
 Name OJ000150\_12.0124.C24.o1.gs  
 Start 538  
 GI none  
 Exons 538..584

Seq. ID OJ000150\_12.0124.C24  
 Strand -  
 End 584  
 Method GENSCAN  
 End 584  
 Score .51

Seq. No. 27712  
 Gene No. 57225  
 Start 1  
 Name OJ000150\_12.0124.C25.o1.np  
 Start 1  
 GI 5001454  
 Exons 1..524

Seq. ID OJ000150\_12.0124.C25  
 Strand -  
 End 524  
 Method AAT/NAP  
 End 524  
 Score 230

GI Descrip. (AC007730) putative non-LTR retroelement reverse transcriptase  
 [Arabidopsis thaliana]

Seq. No. 27712  
 Gene No. 57225  
 Start 1  
 Name OJ000150\_12.0124.C25.o1.tm  
 Start 53  
 GI none  
 Exons 53..304, 149..295, 192..305, 299..328

Seq. ID OJ000150\_12.0124.C25  
 Strand -  
 End 524  
 Method TBLASTX:Maize  
 End 328  
 Score 85

Seq. No. 27712  
 Gene No. 57225  
 Start 1  
 Name OJ000150\_12.0124.C25.o1.ts  
 Start 98  
 GI none  
 Exons 98..283, 272..496

Seq. ID OJ000150\_12.0124.C25  
 Strand -  
 End 524  
 Method TBLASTX:Soybean  
 End 496  
 Score 171

Seq. No. 27712  
 Gene No. 57225  
 Start 1  
 Name OJ000150\_12.0124.C25.o1.gs  
 Start 100  
 GI none  
 Exons 100..128

Seq. ID OJ000150\_12.0124.C25  
 Strand -  
 End 524  
 Method GENSCAN  
 End 128  
 Score .71

Seq. No. 27712  
 Gene No. 57225  
 Start 1  
 Name OJ000150\_12.0124.C25.o1.tw  
 Start 101  
 GI none  
 Exons 101..475

Seq. ID OJ000150\_12.0124.C25  
 Strand -  
 End 524  
 Method TBLASTX:Wheat  
 End 475  
 Score 290

Seq. No. 27712  
 Gene No. 57225  
 Start 1  
 Name OJ000150\_12.0124.C25.o2.tm  
 Start 329  
 GI none  
 Exons 329..520, 357..521

Seq. ID OJ000150\_12.0124.C25  
 Strand -  
 End 524  
 Method TBLASTX:Maize  
 End 521  
 Score 99



Seq. No.	27713	Seq. ID	OJ000150_12.0124.C26
Gene No.	57226	Strand	
Start	55	End	583
Name	OJ000150_12.0124.C26.o1.tm	Method	TBLASTX:Maize
Start	55	End	583
GI	none	Score	168
Exons	55..126, 133..252, 248..583		

Seq. No.	27713	Seq. ID	OJ000150_12.0124.C26
Gene No.	57226	Strand	
Start	55	End	583
Name	OJ000150_12.0124.C26.o1.tw	Method	TBLASTX:Wheat
Start	55	End	255
GI	none	Score	176
Exons	55..255		

Seq. No.	27713	Seq. ID	OJ000150_12.0124.C26
Gene No.	57227	Strand	
Start	869	End	1207
Name	OJ000150_12.0124.C26.o2.tw	Method	TBLASTX:Wheat
Start	869	End	1207
GI	none	Score	82
Exons	869..1000, 876..1013, 1055..1207, 1101..1202		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57228	Strand	+
Start	3284	End	3715
Name	OJ000150_12.0124.C27.o1.gp	Method	AAT/GAP
Start	3284	End	3715
GI	2428185	Score	709
Exons	3284..3715		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57229	Strand	+
Start	4047	End	10773
Name	OJ000150_12.0124.C27.o3.gs	Method	GENSCAN
Start	4047	End	5608
GI	none	Score	.96
Exons	4047..4094, 5093..5608		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57229	Strand	+
Start	4047	End	10773
Name	OJ000150_12.0124.C27.o1.np	Method	AAT/NAP
Start	5093	End	6177
GI	4512231	Score	1162
Exons	5093..5584, 5873..6177		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57229	Strand	+
Start	4047	End	10773
Name	OJ000150_12.0124.C27.o2.np	Method	AAT/NAP
Start	6057	End	10773

GI 4680179 Score 5584  
 Exons 6057..6167, 6419..7366, 7394..10773  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57230	Strand	-
Start	2307	End	2676
Name	OJ000150_12.0124.C27.o2.gs	Method	GENSCAN
Start	2307	End	2676
GI	none	Score	.82
Exons	2307..2540, 2554..2676		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o9.tw	Method	TBLASTX:Wheat
Start	6517	End	6715
GI	none	Score	208
Exons	6517..6714, 6518..6715		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o6.tw	Method	TBLASTX:Wheat
Start	6766	End	7111
GI	none	Score	307
Exons	6766..6876, 6767..7111, 6915..6959		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o6.tm	Method	TBLASTX:Maize
Start	6767	End	7072
GI	none	Score	243
Exons	6767..7072		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o8.tw	Method	TBLASTX:Wheat
Start	7451	End	7804
GI	none	Score	250
Exons	7451..7804		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o4.tw	Method	TBLASTX:Wheat
Start	7936	End	8419
GI	none	Score	517
Exons	7936..8376, 7937..8419, 8048..8416		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o3.ts	Method	TBLASTX:Soybean
Start	7973	End	8287

GI none  
Exons 7973..8287, 8089..8286

Score 208

Seq. No. 27714  
Gene No. 57231  
Start 11009  
Name OJ000150\_12.0124.C27.o4.tm  
Start 8002  
GI none  
Exons 8002..8244, 8006..8449

Seq. ID OJ000150\_12.0124.C27  
Strand -  
End 11379  
Method TBLASTX:Maize  
End 8449  
Score 364

Seq. No. 27714  
Gene No. 57231  
Start 11009  
Name OJ000150\_12.0124.C27.o1.ts  
Start 8360  
GI none  
Exons 8360..8392, 8360..8392, 8396..8449, 8399..8725, 8504..8755

Seq. ID OJ000150\_12.0124.C27  
Strand -  
End 11379  
Method TBLASTX:Soybean  
End 8755  
Score 57

Seq. No. 27714  
Gene No. 57231  
Start 11009  
Name OJ000150\_12.0124.C27.o5.tw  
Start 8469  
GI none  
Exons 8469..8561, 8507..8770, 8509..8769

Seq. ID OJ000150\_12.0124.C27  
Strand -  
End 11379  
Method TBLASTX:Wheat  
End 8770  
Score 58

Seq. No. 27714  
Gene No. 57231  
Start 11009  
Name OJ000150\_12.0124.C27.o5.tm  
Start 8504  
GI none  
Exons 8504..8836, 8557..8835

Seq. ID OJ000150\_12.0124.C27  
Strand -  
End 11379  
Method TBLASTX:Maize  
End 8836  
Score 304

Seq. No. 27714  
Gene No. 57231  
Start 11009  
Name OJ000150\_12.0124.C27.o3.tw  
Start 8771  
GI none  
Exons 8771..9196, 8773..9189, 8888..9196

Seq. ID OJ000150\_12.0124.C27  
Strand -  
End 11379  
Method TBLASTX:Wheat  
End 9196  
Score 597

Seq. No. 27714  
Gene No. 57231  
Start 11009  
Name OJ000150\_12.0124.C27.o4.ts  
Start 8777  
GI none  
Exons 8777..9025, 8803..8907, 8962..9006

Seq. ID OJ000150\_12.0124.C27  
Strand -  
End 11379  
Method TBLASTX:Soybean  
End 9025  
Score 207

Seq. No. 27714  
Gene No. 57231  
Start 11009  
Name OJ000150\_12.0124.C27.o2.tm  
Start 8843  
GI none

Seq. ID OJ000150\_12.0124.C27  
Strand -  
End 11379  
Method TBLASTX:Maize  
End 9196  
Score 461

Exons 8843..9196, 8848..9189

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o2.tw	Method	TBLASTX:Wheat
Start	9224	End	9763
GI	none	Score	614
Exons	9224..9763, 9406..9759		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o1.tc	Method	TBLASTX:Cress
Start	9461	End	9787
GI	none	Score	90
Exons	9461..9643, 9644..9787, 9646..9786		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o2.ts	Method	TBLASTX:Soybean
Start	9551	End	9811
GI	none	Score	299
Exons	9551..9811, 9562..9810		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o3.tm	Method	TBLASTX:Maize
Start	9609	End	9901
GI	none	Score	106
Exons	9609..9896, 9609..9896, 9610..9897, 9611..9901		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o1.tw	Method	TBLASTX:Wheat
Start	9770	End	10396
GI	none	Score	692
Exons	9770..10396, 9772..10275, 9941..10354, 10336..10395		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o1.tm	Method	TBLASTX:Maize
Start	9949	End	10534
GI	none	Score	204
Exons	9949..10104, 9950..10111, 10108..10272, 10109..10534, 10336..10533		

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o7.tw	Method	TBLASTX:Wheat
Start	10396	End	10728
GI	none	Score	261

Exons 10396..10611, 10397..10657, 10606..10728

Seq. No.	27714	Seq. ID	OJ000150_12.0124.C27
Gene No.	57231	Strand	-
Start	11009	End	11379
Name	OJ000150_12.0124.C27.o5.gs	Method	GENSCAN
Start	11009	End	11379
GI	none	Score	.59
Exons	11009..11173, 11197..11379		

Seq. No.	27715	Seq. ID	OJ000150_12.0124.C29
Gene No.	57232	Strand	-
Start	1	End	745
Name	OJ000150_12.0124.C29.o1.np	Method	AAT/NAP
Start	1	End	427
GI	4378066	Score	176
Exons	1..427		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	27715	Seq. ID	OJ000150_12.0124.C29
Gene No.	57232	Strand	-
Start	1	End	745
Name	OJ000150_12.0124.C29.o1.gs	Method	GENSCAN
Start	141	End	745
GI	none	Score	.57
Exons	141..745		

Seq. No.	27716	Seq. ID	OJ000150_12.0124.C30
Gene No.	57233	Strand	+
Start	355	End	562
Name	OJ000150_12.0124.C30.o1.np	Method	AAT/NAP
Start	355	End	562
GI	5852179	Score	187
Exons	355..562		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	27716	Seq. ID	OJ000150_12.0124.C30
Gene No.	57234	Strand	-
Start	419	End	503
Name	OJ000150_12.0124.C30.o1.gs	Method	GENSCAN
Start	419	End	503
GI	none	Score	.72
Exons	419..503		

Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57235	Strand	+
Start	60	End	391
Name	OJ000150_12.0124.C31.o1.gp	Method	AAT/GAP
Start	60	End	391
GI	2428185	Score	491
Exons	60..391		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
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Gene No. 57236 Strand +  
 Start 378 End 551  
 Name OJ000150\_12.0124.C31.o1.np Method AAT/NAP  
 Start 378 End 551  
 GI 6063554 Score 120  
 Exons 378..551  
 GI Descrip. (AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 27717 Seq. ID OJ000150\_12.0124.C31  
 Gene No. 57237 Strand +  
 Start 3517 End 4332  
 Name OJ000150\_12.0124.C31.o2.np Method AAT/NAP  
 Start 3517 End 4332  
 GI 4680183 Score 843  
 Exons 3517..4332  
 GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No. 27717 Seq. ID OJ000150\_12.0124.C31  
 Gene No. 57238 Strand +  
 Start 16808 End 17423  
 Name OJ000150\_12.0124.C31.o2.gp Method AAT/GAP  
 Start 16808 End 17423  
 GI uC-osflcyp034f07b1 Score 730  
 Exons 16808..16892, 17068..17423  
 GI Descrip. '5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'

Seq. No. 27717 Seq. ID OJ000150\_12.0124.C31  
 Gene No. 57239 Strand +  
 Start 18206 End 18565  
 Name OJ000150\_12.0124.C31.o5.np Method AAT/NAP  
 Start 18206 End 18565  
 GI 6815072 Score 426  
 Exons 18206..18565  
 GI Descrip. (AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]

Seq. No. 27717 Seq. ID OJ000150\_12.0124.C31  
 Gene No. 57240 Strand -  
 Start 6332 End 12193  
 Name OJ000150\_12.0124.C31.o3.np Method AAT/NAP  
 Start 6332 End 10123  
 GI 4206306 Score 2868  
 Exons 6332..10123  
 GI Descrip. (AF049110) prpol [Zea mays]

Seq. No. 27717 Seq. ID OJ000150\_12.0124.C31  
 Gene No. 57240 Strand -  
 Start 6332 End 12193  
 Name OJ000150\_12.0124.C31.o6.tw Method TBLASTX:Wheat  
 Start 6341 End 6937  
 GI none Score 102  
 Exons 6341..6466, 6567..6770, 6659..6790, 6818..6937

Seq. No. 27717 Seq. ID OJ000150\_12.0124.C31

Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o5.tm	Method	TBLASTX:Maize
Start	6650	End	6892
GI	none	Score	47
Exons	6650..6892, 6651..6725, 6789..6887		
Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o2.ts	Method	TBLASTX:Soybean
Start	6908	End	7282
GI	none	Score	51
Exons	6908..7132, 6915..7133, 7139..7282, 7140..7253		
Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o4.tm	Method	TBLASTX:Maize
Start	6923	End	7094
GI	none	Score	177
Exons	6923..7093, 6924..7094		
Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o4.tw	Method	TBLASTX:Wheat
Start	7055	End	7444
GI	none	Score	56
Exons	7055..7444, 7067..7174		
Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o3.tm	Method	TBLASTX:Maize
Start	7094	End	7552
GI	none	Score	55
Exons	7094..7552, 7095..7187, 7233..7427		
Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o3.tw	Method	TBLASTX:Wheat
Start	7754	End	8171
GI	none	Score	111
Exons	7754..8002, 7755..7928, 7988..8170, 7995..8171		
Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o1.ts	Method	TBLASTX:Soybean
Start	8438	End	8821
GI	none	Score	92
Exons	8438..8821, 8628..8771		
Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-

Start	6332	End	12193
Name	OJ000150_12.0124.C31.o1.tw	Method	TBLASTX:Wheat
Start	8442	End	8866
GI	none	Score	199
Exons	8442..8813, 8447..8866, 8553..8813		

Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o1.tm	Method	TBLASTX:Maize
Start	8540	End	8923
GI	none	Score	197
Exons	8540..8923, 8553..8813, 8588..8902		

Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o2.tm	Method	TBLASTX:Maize
Start	8951	End	9308
GI	none	Score	207
Exons	8951..9307, 8952..9308		

Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o2.tw	Method	TBLASTX:Wheat
Start	8981	End	9373
GI	none	Score	264
Exons	8981..9373, 8982..9371		

Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o5.tw	Method	TBLASTX:Wheat
Start	9516	End	9866
GI	none	Score	92
Exons	9516..9737, 9517..9738, 9744..9866		

Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o4.np	Method	AAT/NAP
Start	9890	End	12193
GI	6721562	Score	295
Exons	9890..9929, 10541..11574, 12022..12193		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1  (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	27717	Seq. ID	OJ000150_12.0124.C31
Gene No.	57240	Strand	-
Start	6332	End	12193
Name	OJ000150_12.0124.C31.o7.tw	Method	TBLASTX:Wheat
Start	10669	End	11013
GI	none	Score	183



Exons 10669..11013

Seq. No.	27718	Seq. ID	OJ000150_12.0124.C32
Gene No.	57241	Strand	+
Start	1	End	2216
Name	OJ000150_12.0124.C32.o1.np	Method	AAT/NAP
Start	1	End	2216
GI	6815072	Score	1669
Exons	1..90, 199..909, 1019..1305, 1717..2216		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	27718	Seq. ID	OJ000150_12.0124.C32
Gene No.	57241	Strand	+
Start	1	End	2216
Name	OJ000150_12.0124.C32.o1.tm	Method	TBLASTX:Maize
Start	2	End	652
GI	none	Score	222
Exons	2..367, 548..652		

Seq. No.	27718	Seq. ID	OJ000150_12.0124.C32
Gene No.	57241	Strand	+
Start	1	End	2216
Name	OJ000150_12.0124.C32.o1.tw	Method	TBLASTX:Wheat
Start	461	End	874
GI	none	Score	36
Exons	461..541, 548..772, 571..660, 691..771, 796..873, 797..874		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57242	Strand	+
Start	1	End	4315
Name	OJ000150_12.0124.C33.o2.np	Method	AAT/NAP
Start	1	End	4315
GI	6815072	Score	1848
Exons	1..92, 2526..4315		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57243	Strand	+
Start	8693	End	13315
Name	OJ000150_12.0124.C33.o3.gp	Method	AAT/GAP
Start	8626	End	13315
GI	877_1.R1084	Score	2839
Exons	8626..8938, 9084..9131, 9254..9363, 9564..9621, 11050..11313, 11392..11529, 11650..11701, 12065..12144, 12353..12412, 12553..12633, 12988..13315		
GI Descrip.	'4574135/gb AAD23907.1 AF073695_1 1.0e-169 (AF073695) cysteine synthase [Oryza sativa]'		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57243	Strand	+
Start	8693	End	13315
Name	OJ000150_12.0124.C33.o3.gs	Method	GENSCAN
Start	8693	End	13077
GI	none	Score	.91
Exons	8693..8938, 9084..9131, 11050..11313, 11392..11529,		

11650..11701, 12011..12144, 12353..12412, 12553..12633,  
12988..13077

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57243	Strand	+
Start	8693	End	13315
Name	OJ000150_12.0124.C33.o3.np	Method	AAT/NAP
Start	9099	End	13074
GI	4574135	Score	1335
Exons	9099..9131, 9254..9363, 9564..9621, 11050..11313, 11392..11529, 11650..11701, 12065..12144, 12353..12412, 12553..12633, 12988..13074		
GI Descrip.	(AF073695) cysteine synthase [Oryza sativa]		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57244	Strand	-
Start	283	End	1716
Name	OJ000150_12.0124.C33.o1.np	Method	AAT/NAP
Start	283	End	1716
GI	6907088	Score	1180
Exons	283..670, 1165..1402, 1579..1716		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57244	Strand	-
Start	283	End	1716
Name	OJ000150_12.0124.C33.o1.gp	Method	AAT/GAP
Start	711	End	904
GI	5667165	Score	360
Exons	711..904		
GI Descrip.	5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57245	Strand	-
Start	6986	End	7860
Name	OJ000150_12.0124.C33.o3.tm	Method	TBLASTX:Maize
Start	3118	End	3502
GI	none	Score	98
Exons	3118..3501, 3119..3220, 3148..3351, 3254..3502		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57245	Strand	-
Start	6986	End	7860
Name	OJ000150_12.0124.C33.o2.tc	Method	TBLASTX:Cress
Start	3791	End	4048
GI	none	Score	227
Exons	3791..4048, 3799..3996		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57245	Strand	-
Start	6986	End	7860
Name	OJ000150_12.0124.C33.o2.tm	Method	TBLASTX:Maize
Start	3794	End	4114
GI	none	Score	215
Exons	3794..4033, 3796..3933, 4025..4114, 4025..4114		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57245	Strand	-
Start	6986	End	7860
Name	OJ000150_12.0124.C33.o2.ts	Method	TBLASTX:Soybean
Start	4040	End	4222
GI	none	Score	210
Exons	4040..4222, 4040..4180, 4087..4221		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57245	Strand	-
Start	6986	End	7860
Name	OJ000150_12.0124.C33.o2.gp	Method	AAT/GAP
Start	6986	End	7860
GI	LIB3477-003-P1-K1-E9	Score	127
Exons	6986..7048, 7820..7860		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57246	Strand	-
Start	9026	End	13074
Name	OJ000150_12.0124.C33.o1.tc	Method	TBLASTX:Cress
Start	9026	End	13074
GI	none	Score	42
Exons	9026..9136, 9096..9134, 9241..9363, 9242..9364, 9242..9382, 9559..9621, 9562..9621, 11032..11325, 11033..11173, 11047..11331, 11049..11330, 11379..11516, 11389..11532, 11391..11459, 11499..11531, 11607..11702, 11647..11703, 11647..11712, 12063..12146, 12064..12147, 12344..12418, 12350..12415, 12541..12615, 12552..12665, 12553..12633, 12991..13074, 12996..13073		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57246	Strand	-
Start	9026	End	13074
Name	OJ000150_12.0124.C33.o1.tm	Method	TBLASTX:Maize
Start	9053	End	13074
GI	none	Score	40
Exons	9053..9136, 9087..9134, 9241..9363, 9242..9364, 9251..9370, 9559..9618, 9562..9618, 11049..11312, 11049..11312, 11050..11331, 11389..11532, 11389..11529, 11607..11702, 11647..11703, 12063..12146, 12064..12147, 12068..12157, 12345..12431, 12350..12415, 12541..12633, 12546..12566, 12546..12659, 12553..12636, 12968..13069, 12987..13073, 12988..13074		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57246	Strand	-
Start	9026	End	13074
Name	OJ000150_12.0124.C33.o1.ts	Method	TBLASTX:Soybean
Start	9224	End	13074
GI	none	Score	174
Exons	9224..9364, 9226..9363, 9561..9617, 9562..9621, 11014..11322, 11047..11331, 11049..11330, 11389..11532, 11390..11425, 11391..11459, 11647..11703, 11655..11702, 12063..12140, 12064..12147, 12344..12418, 12350..12415, 12354..12431,		

12552..12659, 12553..12633, 12990..13073, 12991..13074

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57246	Strand	
Start	9026	End	13074
Name	OJ000150_12.0124.C33.o1.tw	Method	TBLASTX:Wheat
Start	9241	End	11271
GI	none	Score	193
Exons	9241..9363, 9242..9364, 9242..9370, 9559..9621, 9561..9620, 9562..9621, 11047..11271, 11049..11270		

Seq. No.	27719	Seq. ID	OJ000150_12.0124.C33
Gene No.	57246	Strand	
Start	9026	End	13074
Name	OJ000150_12.0124.C33.o2.tw	Method	TBLASTX:Wheat
Start	11391	End	12636
GI	none	Score	134
Exons	11391..11528, 11392..11532, 11392..11529, 11646..11702, 11647..11703, 12063..12146, 12064..12147, 12068..12157, 12348..12434, 12350..12415, 12351..12446, 12541..12633, 12546..12566, 12546..12635, 12553..12636		

Seq. No.	27720	Seq. ID	OJ000150_12.0124.C34
Gene No.	57247	Strand	+
Start	938	End	1389
Name	OJ000150_12.0124.C34.o1.gp	Method	AAT/GAP
Start	938	End	1389
GI	28447_1.R1084	Score	878
Exons	938..1389		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	27720	Seq. ID	OJ000150_12.0124.C34
Gene No.	57248	Strand	-
Start	553	End	2981
Name	OJ000150_12.0124.C34.o1.np	Method	AAT/NAP
Start	553	End	2981
GI	2959736	Score	295
Exons	553..580, 1287..1569, 1949..2146, 2945..2981		
GI Descrip.	(Y13651) homologous to GATA-binding transcription factors [Arabidopsis thaliana]		

Seq. No.	27720	Seq. ID	OJ000150_12.0124.C34
Gene No.	57248	Strand	-
Start	553	End	2981
Name	OJ000150_12.0124.C34.o1.tc	Method	TBLASTX:Cress
Start	1313	End	1510
GI	none	Score	88
Exons	1313..1510, 1316..1483, 1317..1505		

Seq. No.	27720	Seq. ID	OJ000150_12.0124.C34
Gene No.	57248	Strand	-
Start	553	End	2981
Name	OJ000150_12.0124.C34.o1.ts	Method	TBLASTX:Soybean
Start	1313	End	1738
GI	none	Score	150
Exons	1313..1510, 1317..1502, 1682..1738		

Seq. No.	27720	Seq. ID	OJ000150_12.0124.C34
Gene No.	57248	Strand	-
Start	553	End	2981
Name	OJ000150_12.0124.C34.o1.tm	Method	TBLASTX:Maize
Start	1313	End	1738
GI	none	Score	150
Exons	1313..1510, 1317..1502, 1682..1738		

Seq. No.	27721	Seq. ID	OJ000150_12.0124.C36
Gene No.	57249	Strand	+
Start	1	End	3273
Name	OJ000150_12.0124.C36.o1.np	Method	AAT/NAP
Start	1	End	3273
GI	4585998	Score	307
Exons	1..550, 1658..1713, 3028..3273		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27721	Seq. ID	OJ000150_12.0124.C36
Gene No.	57249	Strand	+
Start	1	End	3273
Name	OJ000150_12.0124.C36.o1.gs	Method	GENSCAN
Start	70	End	1782
GI	none	Score	.57
Exons	70..986, 1294..1782		

Seq. No.	27721	Seq. ID	OJ000150_12.0124.C36
Gene No.	57250	Strand	-
Start	2947	End	4032
Name	OJ000150_12.0124.C36.o2.gs	Method	GENSCAN
Start	2947	End	4032
GI	none	Score	.98
Exons	2947..3546, 3580..4032		

Seq. No.	27722	Seq. ID	OJ000150_12.0124.C37
Gene No.	57251	Strand	-
Start	1	End	923
Name	OJ000150_12.0124.C37.o1.np	Method	AAT/NAP
Start	1	End	923
GI	6016874	Score	704
Exons	1..211, 658..923		
GI Descrip.	(AP000570) ESTs C19143(E10020), D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	27722	Seq. ID	OJ000150_12.0124.C37
Gene No.	57251	Strand	-
Start	1	End	923
Name	OJ000150_12.0124.C37.o1.gs	Method	GENSCAN
Start	679	End	856
GI	none	Score	1
Exons	679..856		

Seq. No.	27722	Seq. ID	OJ000150_12.0124.C37
Gene No.	57251	Strand	-
Start	1	End	923
Name	OJ000150_12.0124.C37.o1.tm	Method	TBLASTX:Maize

Start 745  
GI none  
Exons 745..921, 830..922

End 922  
Score 82

Seq. No. 27723  
Gene No. 57252  
Start 419  
Name OJ000150\_19.0124.C1.o1.tm  
Start 413  
GI none  
Exons 413..487, 414..488, 414..494,

Seq. ID OJ000150\_19.0124.C1  
Strand -  
End 1162  
Method TBLASTX:Maize  
End 797  
Score 99  
597..797, 597..797

Seq. No. 27723  
Gene No. 57252  
Start 419  
Name OJ000150\_19.0124.C1.o1.np  
Start 419  
GI 2224731  
Exons 419..488, 598..810, 904..1041, 1121..1162  
GI Descrip. (AB004932) Aux22d [Vigna radiata]

Seq. ID OJ000150\_19.0124.C1  
Strand -  
End 1162  
Method AAT/NAP  
End 1162  
Score 305

Seq. No. 27723  
Gene No. 57252  
Start 419  
Name OJ000150\_19.0124.C1.o1.ts  
Start 425  
GI none  
Exons 425..490, 426..515, 600..680,

Seq. ID OJ000150\_19.0124.C1  
Strand -  
End 1162  
Method TBLASTX:Soybean  
End 999  
Score 52  
604..681, 687..809, 702..812,  
927..998, 931..999

Seq. No. 27723  
Gene No. 57252  
Start 419  
Name OJ000150\_19.0124.C1.o1.tc  
Start 428  
GI none  
Exons 428..487, 440..487, 597..671,

Seq. ID OJ000150\_19.0124.C1  
Strand -  
End 1162  
Method TBLASTX:Cress  
End 1020  
Score 39  
598..642, 672..812, 694..813,  
927..1019, 946..1020

Seq. No. 27723  
Gene No. 57252  
Start 419  
Name OJ000150\_19.0124.C1.o1.tw  
Start 437  
GI none  
Exons 437..487, 597..662, 598..660,

Seq. ID OJ000150\_19.0124.C1  
Strand -  
End 1162  
Method TBLASTX:Wheat  
End 786  
Score 70  
603..692, 681..773, 681..785,  
691..786

Seq. No. 27723  
Gene No. 57252  
Start 419  
Name OJ000150\_19.0124.C1.o1.gs  
Start 598  
GI none  
Exons 598..987

Seq. ID OJ000150\_19.0124.C1  
Strand -  
End 1162  
Method GENSCAN  
End 987  
Score .75

Seq. No. 27724

Seq. ID OJ000150\_19.0124.C2

Gene No.	57253	Strand	+
Start	10396	End	13501
Name	OJ000150_19.0124.C2.o1.gp	Method	AAT/GAP
Start	10396	End	10598
GI	5607573	Score	402
Exons	10396..10598		
Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57253	Strand	+
Start	10396	End	13501
Name	OJ000150_19.0124.C2.o2.np	Method	AAT/NAP
Start	10407	End	13501
GI	2618721	Score	409
Exons	10407..10693, 12197..12382, 12746..12867, 13287..13348, 13467..13501		
GI Descrip.	(U49072) IAA16 [Arabidopsis thaliana] gi 6175173 gb AAF04899.1 AC011437_14 (AC011437) auxin-induced protein [Arabidopsis thaliana]		
Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57254	Strand	+
Start	14052	End	14437
Name	OJ000150_19.0124.C2.o2.gp	Method	AAT/GAP
Start	14052	End	14437
GI	5004953	Score	712
Exons	14052..14437		
Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57255	Strand	-
Start	5091	End	9248
Name	OJ000150_19.0124.C2.o2.gs	Method	GENSCAN
Start	5091	End	9248
GI	none	Score	.62
Exons	5091..5267, 8411..8582, 9109..9248		
Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57255	Strand	-
Start	5091	End	9248
Name	OJ000150_19.0124.C2.o1.np	Method	AAT/NAP
Start	6183	End	6371
GI	6539571	Score	45
Exons	6183..6371		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		
Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57256	Strand	-
Start	15302	End	18959
Name	OJ000150_19.0124.C2.o4.gs	Method	GENSCAN
Start	15302	End	18959
GI	none	Score	.59
Exons	15302..15364, 15441..15539, 17488..17541, 17670..17738, 17985..18220, 18330..18427, 18554..18658, 18793..18959		
Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57256	Strand	-
Start	15302	End	18959
Name	OJ000150_19.0124.C2.o3.gp	Method	AAT/GAP

Start 17715 End 18634  
 GI 21672\_1.R1084 Score 916  
 Exons 17715..17755, 17841..17907, 17985..18220, 18330..18427,  
 18554..18634  
 GI Descrip. '1946361 4.0e-43 (U93215) C3HC4 zinc finger protein isolog  
 [Arabidopsis thaliana]'

Seq. No. 27724 Seq. ID OJ000150\_19.0124.C2  
 Gene No. 57257 Strand -  
 Start 21660 End 22141  
 Name OJ000150\_19.0124.C2.o1.tc Method TBLASTX:Cress  
 Start 10289 End 13495  
 GI none Score 41  
 Exons 10289..10324, 10410..10523, 12178..12228, 12179..12253,  
 12245..12376, 12245..12370, 12247..12378, 12803..12865,  
 13287..13346, 13288..13347, 13465..13488, 13466..13495

Seq. No. 27724 Seq. ID OJ000150\_19.0124.C2  
 Gene No. 57257 Strand -  
 Start 21660 End 22141  
 Name OJ000150\_19.0124.C2.o1.ts Method TBLASTX:Soybean  
 Start 12178 End 12871  
 GI none Score 90  
 Exons 12178..12273, 12179..12235, 12250..12375, 12251..12376,  
 12788..12871

Seq. No. 27724 Seq. ID OJ000150\_19.0124.C2  
 Gene No. 57257 Strand -  
 Start 21660 End 22141  
 Name OJ000150\_19.0124.C2.o3.tm Method TBLASTX:Maize  
 Start 12178 End 13625  
 GI none Score 91  
 Exons 12178..12225, 12179..12235, 12251..12376, 12254..12376,  
 12803..12868, 13280..13345, 13281..13346, 13281..13346,  
 13288..13347, 13465..13488, 13466..13495, 13469..13504,  
 13470..13508, 13602..13625

Seq. No. 27724 Seq. ID OJ000150\_19.0124.C2  
 Gene No. 57257 Strand -  
 Start 21660 End 22141  
 Name OJ000150\_19.0124.C2.o4.tm Method TBLASTX:Maize  
 Start 15266 End 17711  
 GI none Score 90  
 Exons 15266..15367, 15267..15365, 15268..15366, 15423..15542,  
 15441..15542, 17667..17711

Seq. No. 27724 Seq. ID OJ000150\_19.0124.C2  
 Gene No. 57257 Strand -  
 Start 21660 End 22141  
 Name OJ000150\_19.0124.C2.o1.tw Method TBLASTX:Wheat  
 Start 15423 End 18069  
 GI none Score 98  
 Exons 15423..15542, 15454..15543, 17667..17756, 17668..17757,  
 17668..17757, 17669..17758, 17825..17902, 17837..17908,  
 17842..17910, 17842..17907, 17983..18051, 17985..18062,  
 17985..18068, 17986..18069



Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57257	Strand	-
Start	21660	End	22141
Name	OJ000150_19.0124.C2.o2.tm	Method	TBLASTX:Maize
Start	17985	End	18220
GI	none	Score	230
Exons	17985..18218, 17986..18219, 18017..18220		

Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57257	Strand	-
Start	21660	End	22141
Name	OJ000150_19.0124.C2.o1.tm	Method	TBLASTX:Maize
Start	18331	End	19092
GI	none	Score	80
Exons	18331..18432, 18335..18427, 18554..18661, 18557..18664, 18558..18665, 18781..18978, 18786..18977, 18792..18986, 19057..19092		

Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57257	Strand	-
Start	21660	End	22141
Name	OJ000150_19.0124.C2.o2.ts	Method	TBLASTX:Soybean
Start	18554	End	18996
GI	none	Score	80
Exons	18554..18661, 18586..18660, 18786..18983, 18802..18996		

Seq. No.	27724	Seq. ID	OJ000150_19.0124.C2
Gene No.	57257	Strand	-
Start	21660	End	22141
Name	OJ000150_19.0124.C2.o5.gs	Method	GENSCAN
Start	21660	End	22141
GI	none	Score	.96
Exons	21660..21822, 21984..22141		

Seq. No.	27725	Seq. ID	OJ000150_19.0124.C3
Gene No.	57258	Strand	-
Start	1481	End	9315
Name	OJ000150_19.0124.C3.o1.gs	Method	GENSCAN
Start	1481	End	9315
GI	none	Score	.53
Exons	1481..1540, 2666..2896, 3439..3676, 4882..5067, 5792..5942, 6068..6194, 6622..6707, 8067..8159, 8839..8930, 9161..9192, 9223..9315		

Seq. No.	27725	Seq. ID	OJ000150_19.0124.C3
Gene No.	57258	Strand	-
Start	1481	End	9315
Name	OJ000150_19.0124.C3.o1.np	Method	AAT/NAP
Start	4845	End	5577
GI	6721562	Score	371
Exons	4845..4883, 4958..5577		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1  (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57259	Strand	+
Start	1	End	13763
Name	OJ000150_19.0124.C4.o1.gp	Method	AAT/GAP
Start	1	End	2984
GI	4968908	Score	1303
Exons	1..31, 1306..1405, 2252..2582, 2742..2984		
GI Descrip.	1946361 4.0e-43 (U93215) C3HC4 zinc finger protein isolog [Arabidopsis thaliana]		

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57259	Strand	+
Start	1	End	13763
Name	OJ000150_19.0124.C4.o2.np	Method	AAT/NAP
Start	1	End	13763
GI	5852172	Score	135
Exons	1..60, 7233..7312, 13603..13763		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57259	Strand	+
Start	1	End	13763
Name	OJ000150_19.0124.C4.o1.np	Method	AAT/NAP
Start	1	End	5273
GI	1946361	Score	619
Exons	1..31, 1306..1405, 2252..2598, 2764..3157, 3273..3323, 4018..4090, 5099..5273		
GI Descrip.	(U93215) putative C3HC4 zinc finger protein [Arabidopsis thaliana]		

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57259	Strand	+
Start	1	End	13763
Name	OJ000150_19.0124.C4.o1.gs	Method	GENSCAN
Start	2154	End	4755
GI	none	Score	.67
Exons	2154..2273, 2351..2582, 2742..3157, 3273..3323, 4018..4090, 4705..4755		

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57259	Strand	+
Start	1	End	13763
Name	OJ000150_19.0124.C4.o3.gs	Method	GENSCAN
Start	10086	End	13716
GI	none	Score	.52
Exons	10086..10817, 10939..11058, 11120..11188, 13216..13402, 13444..13535, 13603..13716		

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57260	Strand	+
Start	14510	End	14566
Name	OJ000150_19.0124.C4.o2.gp	Method	AAT/GAP
Start	14510	End	14566
GI	20723_1.R1084	Score	57
Exons	14510..14566		
GI Descrip.	'2149018/gb U70541 OSU70541 8.0e-14 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative		

# NADPH-dependent reductase A1 genes, complete cds'

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57261	Strand	-
Start	5899	End	8711
Name	OJ000150_19.0124.C4.o1.tm	Method	TBLASTX:Maize
Start	2351	End	3010
GI	none	Score	184
Exons	2351..2581, 2358..2585, 2452..2586, 2826..2876, 2826..2879, 2951..3010		

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57261	Strand	-
Start	5899	End	8711
Name	OJ000150_19.0124.C4.o1.tw	Method	TBLASTX:Wheat
Start	3075	End	5284
GI	none	Score	77
Exons	3075..3155, 3107..3157, 3279..3329, 3280..3336, 4015..4113, 4016..4093, 5089..5277, 5096..5269, 5096..5284		

Seq. No.	27726	Seq. ID	OJ000150_19.0124.C4
Gene No.	57261	Strand	-
Start	5899	End	8711
Name	OJ000150_19.0124.C4.o2.gs	Method	GENSCAN
Start	5899	End	8711
GI	none	Score	.45
Exons	5899..6023, 6974..7011, 7303..7678, 8271..8524, 8539..8711		

Seq. No.	27727	Seq. ID	OJ000150_19.0124.C5
Gene No.	57262	Strand	-
Start	1	End	650
Name	OJ000150_19.0124.C5.o1.np	Method	AAT/NAP
Start	1	End	650
GI	6006359	Score	42
Exons	1..19, 572..650		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	27728	Seq. ID	OJ000150_19.0124.C6
Gene No.	57263	Strand	-
Start	1	End	633
Name	OJ000150_19.0124.C6.o1.np	Method	AAT/NAP
Start	1	End	423
GI	6539586	Score	682
Exons	1..423		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	27728	Seq. ID	OJ000150_19.0124.C6
Gene No.	57263	Strand	-
Start	1	End	633
Name	OJ000150_19.0124.C6.o1.gs	Method	GENSCAN
Start	30	End	633
GI	none	Score	.51
Exons	30..633		

Seq. No.	27729	Seq. ID	OJ000150_19.0124.C7
Gene No.	57264	Strand	-
Start	414	End	884

Name	OJ000150_19.0124.C7.o1.gs	Method	GENSCAN
Start	414	End	884
GI	none	Score	.51
Exons	414..589, 702..884		
Seq. No.	27730	Seq. ID	OJ000150_19.0124.C8
Gene No.	57265	Strand	+
Start	2377	End	2597
Name	OJ000150_19.0124.C8.o1.tm	Method	TBLASTX:Maize
Start	2130	End	2470
GI	none	Score	158
Exons	2130..2222, 2273..2470		
Seq. No.	27730	Seq. ID	OJ000150_19.0124.C8
Gene No.	57265	Strand	+
Start	2377	End	2597
Name	OJ000150_19.0124.C8.o1.gs	Method	GENSCAN
Start	2377	End	2597
GI	none	Score	.55
Exons	2377..2454, 2532..2597		
Seq. No.	27731	Seq. ID	OJ000150_19.0124.C9
Gene No.	57266	Strand	+
Start	519	End	1242
Name	OJ000150_19.0124.C9.o1.tm	Method	TBLASTX:Maize
Start	519	End	1242
GI	none	Score	59
Exons	519..644, 529..678, 535..681, 537..638, 541..645, 612..647, 650..793, 650..775, 668..796, 702..794, 704..793, 705..788, 711..794, 714..794, 719..799, 826..960, 829..954, 830..958, 830..955, 837..965, 838..966, 849..965, 851..967, 852..965, 858..941, 1033..1065, 1072..1203, 1072..1191, 1079..1234, 1079..1186, 1079..1204, 1079..1201, 1090..1242, 1090..1194		
Seq. No.	27732	Seq. ID	OJ000150_19.0124.C10
Gene No.	57267	Strand	+
Start	161	End	954
Name	OJ000150_19.0124.C10.o1.gs	Method	GENSCAN
Start	161	End	954
GI	none	Score	.69
Exons	161..178, 300..398, 676..954		
Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57268	Strand	+
Start	826	End	6476
Name	OJ000150_19.0124.C11.o1.gs	Method	GENSCAN
Start	826	End	6476
GI	none	Score	.54
Exons	826..916, 921..1034, 1165..1509, 1857..1976, 2671..2711, 2993..3217, 5395..5584, 6230..6348, 6354..6476		
Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57269	Strand	+
Start	12477	End	16142
Name	OJ000150_19.0124.C11.o4.gs	Method	GENSCAN
Start	12477	End	12818
GI	none	Score	.98

Exons 12477..12818

Seq. No. 27733 Seq. ID OJ000150\_19.0124.C11  
Gene No. 57269 Strand +  
Start 12477 End 16142  
Name OJ000150\_19.0124.C11.o4.np Method AAT/NAP  
Start 12477 End 15788  
GI 4680203 Score 3271  
Exons 12477..14150, 14304..14534, 14811..15788  
GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 27733 Seq. ID OJ000150\_19.0124.C11  
Gene No. 57269 Strand +  
Start 12477 End 16142  
Name OJ000150\_19.0124.C11.o1.gp Method AAT/GAP  
Start 12481 End 16142  
GI 342\_1.R1084 Score 5772  
Exons 12481..16142  
GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 27733 Seq. ID OJ000150\_19.0124.C11  
Gene No. 57269 Strand +  
Start 12477 End 16142  
Name OJ000150\_19.0124.C11.o5.gs Method GENSCAN  
Start 12981 End 15809  
GI none Score .94  
Exons 12981..13289, 13425..13860, 13921..15809

Seq. No. 27733 Seq. ID OJ000150\_19.0124.C11  
Gene No. 57270 Strand -  
Start 5569 End 8630  
Name OJ000150\_19.0124.C11.o1.np Method AAT/NAP  
Start 5569 End 8095  
GI 6498436 Score 317  
Exons 5569..5620, 6804..7017, 7066..7245, 7425..7843, 7891..8095  
GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. No. 27733 Seq. ID OJ000150\_19.0124.C11  
Gene No. 57270 Strand -  
Start 5569 End 8630  
Name OJ000150\_19.0124.C11.o2.gs Method GENSCAN  
Start 6768 End 8630  
GI none Score .81  
Exons 6768..7441, 7891..8095, 8553..8630

Seq. No. 27733 Seq. ID OJ000150\_19.0124.C11  
Gene No. 57270 Strand -  
Start 5569 End 8630  
Name OJ000150\_19.0124.C11.o2.np Method AAT/NAP  
Start 8067 End 8560  
GI 6705984 Score 235  
Exons 8067..8560  
GI Descrip. (AB033235) gag-pol polyprotein [Oryza sativa]

Seq. No. 27733 Seq. ID OJ000150\_19.0124.C11  
Gene No. 57271 Strand -

Start	9382	End	12596
Name	OJ000150_19.0124.C11.o5.tw	Method	TBLASTX:Wheat
Start	3444	End	3790
GI	none	Score	41
Exons	3444..3485, 3448..3486, 3491..3595, 3491..3688, 3740..3790		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57271	Strand	-
Start	9382	End	12596
Name	OJ000150_19.0124.C11.o6.tw	Method	TBLASTX:Wheat
Start	8009	End	8424
GI	none	Score	63
Exons	8009..8239, 8256..8390, 8257..8424		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57271	Strand	-
Start	9382	End	12596
Name	OJ000150_19.0124.C11.o3.np	Method	AAT/NAP
Start	9382	End	12596
GI	6498436	Score	57
Exons	9382..9402, 10568..10771, 12564..12596		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57272	Strand	-
Start	12829	End	13179
Name	OJ000150_19.0124.C11.o4.tw	Method	TBLASTX:Wheat
Start	12829	End	13179
GI	none	Score	52
Exons	12829..12882, 12894..12935, 12918..13163, 12918..13142, 12926..13162, 12929..13171, 12937..13179		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57273	Strand	-
Start	13100	End	13973
Name	OJ000150_19.0124.C11.o1.ts	Method	TBLASTX:Soybean
Start	13100	End	13529
GI	none	Score	101
Exons	13100..13183, 13101..13175, 13167..13238, 13233..13529, 13265..13516		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57273	Strand	-
Start	13100	End	13973
Name	OJ000150_19.0124.C11.o2.tc	Method	TBLASTX:Cress
Start	13262	End	13610
GI	none	Score	313
Exons	13262..13414, 13269..13610, 13463..13591		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57273	Strand	-
Start	13100	End	13973
Name	OJ000150_19.0124.C11.o2.tw	Method	TBLASTX:Wheat
Start	13398	End	13867
GI	none	Score	73
Exons	13398..13454, 13406..13450, 13451..13552, 13452..13556, 13452..13574, 13560..13658, 13563..13658, 13565..13666,		

13568..13660, 13638..13862, 13658..13867, 13661..13867

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57273	Strand	
Start	13100	End	13973
Name	OJ000150_19.0124.C11.o1.tm	Method	TBLASTX:Maize
Start	13443	End	13901
GI	none	Score	243
Exons	13443..13697, 13455..13697, 13707..13901		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57273	Strand	
Start	13100	End	13973
Name	OJ000150_19.0124.C11.o2.ts	Method	TBLASTX:Soybean
Start	13731	End	13973
GI	none	Score	208
Exons	13731..13973		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57274	Strand	
Start	14006	End	14411
Name	OJ000150_19.0124.C11.o3.tw	Method	TBLASTX:Wheat
Start	14006	End	14411
GI	none	Score	87
Exons	14006..14056, 14007..14069, 14055..14297, 14075..14257, 14086..14298, 14331..14411		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57275	Strand	
Start	14412	End	15734
Name	OJ000150_19.0124.C11.o1.tw	Method	TBLASTX:Wheat
Start	14412	End	15734
GI	none	Score	875
Exons	14412..14516, 14417..15319, 14418..15335, 15310..15375, 15330..15374, 15377..15472, 15381..15440, 15419..15559, 15420..15548, 15450..15566, 15488..15568, 15572..15625, 15573..15653, 15642..15734, 15646..15717, 15668..15733		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57275	Strand	
Start	14412	End	15734
Name	OJ000150_19.0124.C11.o2.tm	Method	TBLASTX:Maize
Start	14460	End	14774
GI	none	Score	304
Exons	14460..14774, 14471..14746		

Seq. No.	27733	Seq. ID	OJ000150_19.0124.C11
Gene No.	57275	Strand	
Start	14412	End	15734
Name	OJ000150_19.0124.C11.o1.tc	Method	TBLASTX:Cress
Start	14701	End	15153
GI	none	Score	140
Exons	14701..14883, 14705..15040, 14705..15148, 14709..15152, 14902..15153, 15003..15152		

Seq. No.	27734	Seq. ID	OJ000150_19.0124.C12
Gene No.	57276	Strand	+

Start	1225	End	6787
Name	OJ000150_19.0124.C12.o1.np	Method	AAT/NAP
Start	1225	End	4924
GI	4680204	Score	1004
Exons	1225..2659, 2753..3825, 3914..4087, 4177..4312, 4716..4924		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	27734	Seq. ID	OJ000150_19.0124.C12
Gene No.	57276	Strand	+
Start	1225	End	6787
Name	OJ000150_19.0124.C12.o1.gs	Method	GENSCAN
Start	1240	End	6787
GI	none	Score	.58
Exons	1240..1971, 2246..2659, 2732..2894, 3168..3825, 3914..4087, 4177..4287, 4388..4460, 4556..4654, 4754..4909, 5937..6120, 6454..6586, 6694..6787		

Seq. No.	27734	Seq. ID	OJ000150_19.0124.C12
Gene No.	57277	Strand	-
Start	5162	End	5565
Name	OJ000150_19.0124.C12.o1.tw	Method	TBLASTX:Wheat
Start	1972	End	2311
GI	none	Score	160
Exons	1972..2121, 1973..2140, 2135..2275, 2194..2274, 2279..2311		

Seq. No.	27734	Seq. ID	OJ000150_19.0124.C12
Gene No.	57277	Strand	-
Start	5162	End	5565
Name	OJ000150_19.0124.C12.o2.tw	Method	TBLASTX:Wheat
Start	3601	End	4255
GI	none	Score	143
Exons	3601..3669, 3900..4100, 3912..4097, 4174..4248, 4175..4255		

Seq. No.	27734	Seq. ID	OJ000150_19.0124.C12
Gene No.	57277	Strand	-
Start	5162	End	5565
Name	OJ000150_19.0124.C12.o1.gp	Method	AAT/GAP
Start	5162	End	5565
GI	LIB3477-003-P1-K1-E9	Score	135
Exons	5162..5185, 5487..5565		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27735	Seq. ID	OJ000150_19.0124.C13
Gene No.	57278	Strand	+
Start	99	End	559
Name	OJ000150_19.0124.C13.o1.gs	Method	GENSCAN
Start	99	End	559
GI	none	Score	.96
Exons	99..165, 378..559		

Seq. No.	27735	Seq. ID	OJ000150_19.0124.C13
Gene No.	57279	Strand	+
Start	1448	End	6832
Name	OJ000150_19.0124.C13.o2.gs	Method	GENSCAN
Start	1448	End	6832



GI none Score .58  
Exons 1448..1531, 1688..2758, 3077..3954, 4072..5150, 5589..5749, 6580..6832

Seq. No. 27735 Seq. ID OJ000150\_19.0124.C13  
Gene No. 57280 Strand -  
Start 4128 End 6844  
Name OJ000150\_19.0124.C13.o2.np Method AAT/NAP  
Start 4128 End 6844  
GI 5852180 Score 201  
Exons 4128..4151, 6613..6844  
GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 27735 Seq. ID OJ000150\_19.0124.C13  
Gene No. 57280 Strand -  
Start 4128 End 6844  
Name OJ000150\_19.0124.C13.o1.ts Method TBLASTX:Soybean  
Start 4889 End 5227  
GI none Score 198  
Exons 4889..5227

Seq. No. 27735 Seq. ID OJ000150\_19.0124.C13  
Gene No. 57280 Strand -  
Start 4128 End 6844  
Name OJ000150\_19.0124.C13.o1.tw Method TBLASTX:Wheat  
Start 5446 End 5767  
GI none Score 182  
Exons 5446..5709, 5447..5767

Seq. No. 27736 Seq. ID OJ000150\_19.0124.C14  
Gene No. 57281 Strand +  
Start 281 End 5785  
Name OJ000150\_19.0124.C14.o3.np Method AAT/NAP  
Start 281 End 5785  
GI 4680179 Score 4283  
Exons 281..353, 2598..5785  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 27736 Seq. ID OJ000150\_19.0124.C14  
Gene No. 57281 Strand +  
Start 281 End 5785  
Name OJ000150\_19.0124.C14.o2.np Method AAT/NAP  
Start 630 End 1205  
GI 4234846 Score 291  
Exons 630..1205  
GI Descrip. (AF082130) gag-pol polyprotein [Zea mays]

Seq. No. 27736 Seq. ID OJ000150\_19.0124.C14  
Gene No. 57282 Strand +  
Start 7206 End 7498  
Name OJ000150\_19.0124.C14.o2.gp Method AAT/GAP  
Start 7206 End 7498  
GI uC-osflcyp033a04b1 Score 509  
Exons 7206..7498  
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57283	Strand	-
Start	1	End	2076
Name	OJ000150_19.0124.C14.o1.np	Method	AAT/NAP
Start	1	End	2076
GI	5852180	Score	75
Exons	1..79, 2001..2076		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57284	Strand	-
Start	2476	End	2592
Name	OJ000150_19.0124.C14.o1.gp	Method	AAT/GAP
Start	2476	End	2592
GI	LIB3475-004-P1-K2-A5	Score	180
Exons	2476..2592		
GI Descrip.	'5777612/emb AJ245900.1 OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o6.tm	Method	TBLASTX:Maize
Start	558	End	1039
GI	none	Score	201
Exons	558..626, 577..756, 581..799, 581..763, 693..776, 932..1039		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o4.tw	Method	TBLASTX:Wheat
Start	2945	End	3431
GI	none	Score	52
Exons	2945..3388, 2949..2999, 3054..3431		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o5.tm	Method	TBLASTX:Maize
Start	2960	End	3250
GI	none	Score	273
Exons	2960..3250, 2961..3248		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o3.tm	Method	TBLASTX:Maize
Start	3318	End	3817
GI	none	Score	168
Exons	3318..3497, 3326..3445, 3527..3817, 3643..3696, 3724..3774		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o1.ts	Method	TBLASTX:Soybean
Start	3372	End	3766
GI	none	Score	57

## Exons

3372..3404, 3374..3403, 3408..3527, 3410..3445, 3494..3766,  
3526..3765

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o5.tw	Method	TBLASTX:Wheat
Start	3526	End	3781
GI	none	Score	321
Exons	3526..3765, 3527..3781, 3527..3775		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o3.tw	Method	TBLASTX:Wheat
Start	3782	End	4207
GI	none	Score	588
Exons	3782..4207, 3814..4203		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o3.ts	Method	TBLASTX:Soybean
Start	3788	End	4033
GI	none	Score	200
Exons	3788..4033, 3811..4032		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o2.tm	Method	TBLASTX:Maize
Start	3853	End	4207
GI	none	Score	484
Exons	3853..4203, 3854..4207		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o2.tw	Method	TBLASTX:Wheat
Start	4238	End	4774
GI	none	Score	623
Exons	4238..4774, 4282..4773		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o2.ts	Method	TBLASTX:Soybean
Start	4586	End	4822
GI	none	Score	272
Exons	4586..4822, 4687..4821		

Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o4.tm	Method	TBLASTX:Maize
Start	4620	End	4912
GI	none	Score	102

Exons	4620..4808, 4621..4908, 4622..4912		
Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o1.tw	Method	TBLASTX:Wheat
Start	4781	End	5407
GI	none	Score	681
Exons	4781..5407, 4837..5295, 5153..5404		
Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o1.tm	Method	TBLASTX:Maize
Start	4961	End	5560
GI	none	Score	234
Exons	4961..5122, 4969..5115, 5120..5560, 5122..5544, 5282..5545		
Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o6.tw	Method	TBLASTX:Wheat
Start	5407	End	5740
GI	none	Score	308
Exons	5407..5676, 5408..5740, 5411..5698		
Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o2.gs	Method	GENSCAN
Start	6637	End	7489
GI	none	Score	.88
Exons	6637..6724, 7436..7489		
Seq. No.	27736	Seq. ID	OJ000150_19.0124.C14
Gene No.	57285	Strand	-
Start	6637	End	8913
Name	OJ000150_19.0124.C14.o4.np	Method	AAT/NAP
Start	7139	End	8913
GI	4680186	Score	371
Exons	7139..7339, 8091..8142, 8518..8913		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	27737	Seq. ID	OJ000150_19.0124.C16
Gene No.	57286	Strand	-
Start	42	End	153
Name	OJ000150_19.0124.C16.o1.gs	Method	GENSCAN
Start	42	End	153
GI	none	Score	.57
Exons	42..153		
Seq. No.	27738	Seq. ID	OJ000150_19.0124.C20
Gene No.	57287	Strand	-
Start	1	End	439
Name	OJ000150_19.0124.C20.o1.np	Method	AAT/NAP
Start	1	End	439
GI	1657615	Score	447

Exons 1..439  
 GI Descrip. (U72502) Glp [Arabidopsis thaliana] gi|3068706|gb|AAC14406.1|  
 (AF049236) putative transmembrane protein Glp [Arabidopsis  
 thaliana]

Seq. No. 27738 Seq. ID OJ000150\_19.0124.C20  
 Gene No. 57287 Strand -  
 Start 1 End 439  
 Name OJ000150\_19.0124.C20.o1.tc Method TBLASTX:Cress  
 Start 29 End 438  
 GI none Score 53  
 Exons 29..73, 30..65, 76..273, 83..274, 283..327, 354..437, 391..438

Seq. No. 27738 Seq. ID OJ000150\_19.0124.C20  
 Gene No. 57287 Strand -  
 Start 1 End 439  
 Name OJ000150\_19.0124.C20.o1.ts Method TBLASTX:Soybean  
 Start 29 End 252  
 GI none Score 58  
 Exons 29..73, 30..65, 76..252, 83..220

Seq. No. 27739 Seq. ID OJ000150\_19.0124.C23  
 Gene No. 57288 Strand -  
 Start 184 End 270  
 Name OJ000150\_19.0124.C23.o1.gs Method GENSCAN  
 Start 184 End 270  
 GI none Score .98  
 Exons 184..270

Seq. No. 27740 Seq. ID OJ000150\_19.0124.C25  
 Gene No. 57289 Strand -  
 Start 2 End 134  
 Name OJ000150\_19.0124.C25.o1.tm Method TBLASTX:Maize  
 Start 2 End 134  
 GI none Score 173  
 Exons 2..133, 3..134, 3..134

Seq. No. 27741 Seq. ID OJ000150\_19.0124.C28  
 Gene No. 57290 Strand -  
 Start 175 End 429  
 Name OJ000150\_19.0124.C28.o1.gs Method GENSCAN  
 Start 175 End 429  
 GI none Score .67  
 Exons 175..320, 399..429

Seq. No. 27742 Seq. ID OJ000150\_18.0124.C1  
 Gene No. 57291 Strand +  
 Start 359 End 473  
 Name OJ000150\_18.0124.C1.o1.gs Method GENSCAN  
 Start 359 End 473  
 GI none Score .98  
 Exons 359..473

Seq. No. 27743 Seq. ID OJ000150\_18.0124.C2  
 Gene No. 57292 Strand -  
 Start 15 End 474  
 Name OJ000150\_18.0124.C2.o1.gp Method AAT/GAP

Start	15	End	474
GI	uC-osflcyp088a08a1	Score	837
Exons	15..474		
GI Descrip.	'3047095 4.0e-37 (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 72.39) [Arabidopsis thaliana]'		

Seq. No.	27744	Seq. ID	OJ000150_18.0124.C9
Gene No.	57293	Strand	-
Start	1	End	152
Name	OJ000150_18.0124.C9.o1.np	Method	AAT/NAP
Start	1	End	152
GI	6063554	Score	67
Exons	1..152		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27745	Seq. ID	OJ000150_18.0124.C10
Gene No.	57294	Strand	-
Start	42	End	162
Name	OJ000150_18.0124.C10.o1.gs	Method	GENSCAN
Start	42	End	162
GI	none	Score	.76
Exons	42..162		

Seq. No.	27746	Seq. ID	OJ000150_18.0124.C11
Gene No.	57295	Strand	+
Start	1	End	523
Name	OJ000150_18.0124.C11.o1.gp	Method	AAT/GAP
Start	1	End	523
GI	62580 1.R1084	Score	949
Exons	1..523		
GI Descrip.	'5091508/dbj BAA78743.1  1.0e-16 (AB023482) ESTs C22458(C62866), C22459(C62866) correspond to a region of the predicted gene.; Similar to genomic sequence of Arabidopsis thaliana BAC F8A5, complete sequence.(AC002292) [Oryza sativa]'		

Seq. No.	27746	Seq. ID	OJ000150_18.0124.C11
Gene No.	57295	Strand	+
Start	1	End	523
Name	OJ000150_18.0124.C11.o1.gs	Method	GENSCAN
Start	77	End	272
GI	none	Score	.56
Exons	77..272		

Seq. No.	27747	Seq. ID	OJ000150_18.0124.C12
Gene No.	57296	Strand	+
Start	1	End	427
Name	OJ000150_18.0124.C12.o1.np	Method	AAT/NAP
Start	1	End	405
GI	5295971	Score	466
Exons	1..405		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	27747	Seq. ID	OJ000150_18.0124.C12
Gene No.	57296	Strand	+
Start	1	End	427
Name	OJ000150_18.0124.C12.o1.gs	Method	GENSCAN
Start	51	End	427
GI	none	Score	.97
Exons	51..427		

Seq. No.	27747	Seq. ID	OJ000150_18.0124.C12
Gene No.	57297	Strand	-
Start	1	End	1692
Name	OJ000150_18.0124.C12.o2.np	Method	AAT/NAP
Start	1	End	1692
GI	5903051	Score	188
Exons	1..155, 1505..1692		
GI Descrip.	(AC008016) Contains PF 00069 Eukaryotic protein kinase domain. ESTs gb W43822, gb T20475 and gb AA586152 come from this gene. [Arabidopsis thaliana]		

Seq. No.	27747	Seq. ID	OJ000150_18.0124.C12
Gene No.	57297	Strand	-
Start	1	End	1692
Name	OJ000150_18.0124.C12.o1.tm	Method	TBLASTX:Maize
Start	56	End	371
GI	none	Score	37
Exons	56..289, 57..95, 92..289, 289..369, 290..370, 291..371, 291..371		

Seq. No.	27747	Seq. ID	OJ000150_18.0124.C12
Gene No.	57297	Strand	-
Start	1	End	1692
Name	OJ000150_18.0124.C12.o2.gs	Method	GENSCAN
Start	1319	End	1669
GI	none	Score	.9
Exons	1319..1387, 1510..1669		

Seq. No.	27747	Seq. ID	OJ000150_18.0124.C12
Gene No.	57297	Strand	-
Start	1	End	1692
Name	OJ000150_18.0124.C12.o1.gp	Method	AAT/GAP
Start	1441	End	1670
GI	82303_1.R1084	Score	263
Exons	1441..1670		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	27747	Seq. ID	OJ000150_18.0124.C12
Gene No.	57297	Strand	-
Start	1	End	1692
Name	OJ000150_18.0124.C12.o1.tc	Method	TBLASTX:Cress
Start	1507	End	1659
GI	none	Score	61
Exons	1507..1659, 1512..1589		

Seq. No.	27747	Seq. ID	OJ000150_18.0124.C12
Gene No.	57297	Strand	-
Start	1	End	1692
Name	OJ000150_18.0124.C12.o1.ts	Method	TBLASTX:Soybean

Start 1507 End 1645  
 GI none Score 59  
 Exons 1507..1644, 1511..1543, 1515..1586, 1583..1645

Seq. No. 27747 Seq. ID OJ000150\_18.0124.C12  
 Gene No. 57297 Strand -  
 Start 1 End 1692  
 Name OJ000150\_18.0124.C12.o2.tm Method TBLASTX:Maize  
 Start 1507 End 1672  
 GI none Score 58  
 Exons 1507..1656, 1510..1560, 1512..1601, 1583..1654, 1640..1672

Seq. No. 27748 Seq. ID OJ000150\_18.0124.C13  
 Gene No. 57298 Strand +  
 Start 3658 End 4150  
 Name OJ000150\_18.0124.C13.o2.gp Method AAT/GAP  
 Start 3658 End 4150  
 GI none Score 338  
 Exons 3658..3813, 4111..4150

Seq. No. 27748 Seq. ID OJ000150\_18.0124.C13  
 Gene No. 57299 Strand -  
 Start 1 End 4160  
 Name OJ000150\_18.0124.C13.o1.gp Method AAT/GAP  
 Start 1 End 136  
 GI 82303\_1.R1084 Score 264  
 Exons 1..136  
 GI Descrip. '4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA;  
 similar sequence to Pib gene'

Seq. No. 27748 Seq. ID OJ000150\_18.0124.C13  
 Gene No. 57299 Strand -  
 Start 1 End 4160  
 Name OJ000150\_18.0124.C13.o1.gs Method GENSCAN  
 Start 36 End 4160  
 GI none Score .45  
 Exons 36..58, 391..622, 3674..3828, 4042..4160

Seq. No. 27749 Seq. ID OJ000150\_18.0124.C14  
 Gene No. 57300 Strand +  
 Start 497 End 736  
 Name OJ000150\_18.0124.C14.o1.np Method AAT/NAP  
 Start 497 End 736  
 GI 5915835 Score 117  
 Exons 497..736  
 GI Descrip. CYTOCHROME P450 71D6 gi|1762142 (U48434) putative cytochrome  
 P450 [Solanum chacoense]

Seq. No. 27750 Seq. ID OJ000150\_18.0124.C16  
 Gene No. 57301 Strand +  
 Start 1 End 670  
 Name OJ000150\_18.0124.C16.o1.np Method AAT/NAP  
 Start 1 End 670  
 GI 6539558 Score 748  
 Exons 1..670  
 GI Descrip. (AP000836) Similar to putative polyprotein (AC006248) [Oryza  
 sativa]



Seq. No.	27750	Seq. ID	OJ000150_18.0124.C16
Gene No.	57301	Strand	+
Start	1	End	670
Name	OJ000150_18.0124.C16.o1.gs	Method	GENSCAN
Start	102	End	618
GI	none	Score	.48
Exons	102..160, 338..464, 466..618		

Seq. No.	27750	Seq. ID	OJ000150_18.0124.C16
Gene No.	57301	Strand	+
Start	1	End	670
Name	OJ000150_18.0124.C16.o1.tm	Method	TBLASTX:Maize
Start	111	End	564
GI	none	Score	266
Exons	111..392, 155..322, 356..391, 445..564		

Seq. No.	27751	Seq. ID	OJ000150_18.0124.C18
Gene No.	57302	Strand	+
Start	69	End	191
Name	OJ000150_18.0124.C18.o1.gs	Method	GENSCAN
Start	69	End	191
GI	none	Score	.95
Exons	69..191		

Seq. No.	27752	Seq. ID	OJ000150_18.0124.C19
Gene No.	57303	Strand	+
Start	1	End	241
Name	OJ000150_18.0124.C19.o1.np	Method	AAT/NAP
Start	1	End	241
GI	103076	Score	86
Exons	1..241		
GI Descrip.	Bkm-like sex-determining region hypothetical protein CS314 - fruit fly (Drosophila melanogaster) (fragment)		

Seq. No.	27752	Seq. ID	OJ000150_18.0124.C19
Gene No.	57304	Strand	-
Start	429	End	470
Name	OJ000150_18.0124.C19.o1.gs	Method	GENSCAN
Start	429	End	470
GI	none	Score	.63
Exons	429..470		

Seq. No.	27753	Seq. ID	OJ000150_18.0124.C21
Gene No.	57305	Strand	+
Start	1	End	212
Name	OJ000150_18.0124.C21.o1.np	Method	AAT/NAP
Start	1	End	212
GI	5915839	Score	193
Exons	1..212		
GI Descrip.	CYTOCHROME P450 71D10 gi 2739000 gb AAB94588  (AF022459) CYP71D10p [Glycine max]		

Seq. No.	27753	Seq. ID	OJ000150_18.0124.C21
Gene No.	57306	Strand	+
Start	153	End	218
Name	OJ000150_18.0124.C21.o1.ts	Method	TBLASTX:Soybean

Start 2  
 GI none  
 Exons 2..163, 3..212

End 212  
 Score 204

Seq. No. 27753  
 Gene No. 57306  
 Start 153  
 Name OJ000150\_18.0124.C21.ol.tw  
 Start 2  
 GI none  
 Exons 2..196, 2..166, 3..218, 3..209

Seq. ID OJ000150\_18.0124.C21  
 Strand +  
 End 218  
 Method TBLASTX:Wheat  
 End 218  
 Score 132

Seq. No. 27753  
 Gene No. 57306  
 Start 153  
 Name OJ000150\_18.0124.C21.ol.tm  
 Start 26  
 GI none  
 Exons 26..163, 27..176, 30..176, 31..177

Seq. ID OJ000150\_18.0124.C21  
 Strand +  
 End 218  
 Method TBLASTX:Maize  
 End 177  
 Score 182

Seq. No. 27753  
 Gene No. 57306  
 Start 153  
 Name OJ000150\_18.0124.C21.ol.gs  
 Start 153  
 GI none  
 Exons 153..200

Seq. ID OJ000150\_18.0124.C21  
 Strand +  
 End 218  
 Method GENSCAN  
 End 200  
 Score .97

Seq. No. 27754  
 Gene No. 57307  
 Start 626  
 Name OJ000150\_18.0124.C22.ol.gs  
 Start 626  
 GI none  
 Exons 626..685

Seq. ID OJ000150\_18.0124.C22  
 Strand -  
 End 685  
 Method GENSCAN  
 End 685  
 Score .65

Seq. No. 27755  
 Gene No. 57308  
 Start 1  
 Name OJ000150\_18.0124.C25.ol.np  
 Start 1  
 GI 6907088  
 Exons 1..67, 702..836  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. ID OJ000150\_18.0124.C25  
 Strand -  
 End 836  
 Method AAT/NAP  
 End 836  
 Score 124

Seq. No. 27755  
 Gene No. 57308  
 Start 1  
 Name OJ000150\_18.0124.C25.ol.gs  
 Start 381  
 GI none  
 Exons 381..505, 641..791

Seq. ID OJ000150\_18.0124.C25  
 Strand -  
 End 836  
 Method GENSCAN  
 End 791  
 Score .52

Seq. No. 27756  
 Gene No. 57309  
 Start 213  
 Name OJ000150\_18.0124.C27.ol.gs

Seq. ID OJ000150\_18.0124.C27  
 Strand +  
 End 713  
 Method GENSCAN

Start 213  
GI none  
Exons 213..713

End 713  
Score .97

Seq. No. 27757  
Gene No. 57310  
Start 1  
Name OJ000150\_18.0124.C28.o1.gp  
Start 1  
GI 533\_1.R1084  
Exons 1..23, 46..99  
GI Descrip. '113172/sp|P15543|ACP3 HORVU 9.0e-52 ACYL CARRIER PROTEIN III  
PRECURSOR (ACP III) >gi\_100561\_pir\_S17928 acyl carrier protein  
3 - barley >gi\_166971 (M58754) acyl carrier protein III [Hordeum  
vulgare]'

Seq. ID OJ000150\_18.0124.C28  
Strand +  
End 99  
Method AAT/GAP  
End 99  
Score -89

Seq. No. 27757  
Gene No. 57311  
Start 458  
Name OJ000150\_18.0124.C28.o1.gs  
Start 458  
GI none  
Exons 458..676

Seq. ID OJ000150\_18.0124.C28  
Strand +  
End 676  
Method GENSCAN  
End 676  
Score 1

Seq. No. 27758  
Gene No. 57312  
Start 190  
Name OJ000150\_18.0124.C29.o1.gs  
Start 190  
GI none  
Exons 190..376

Seq. ID OJ000150\_18.0124.C29  
Strand +  
End 376  
Method GENSCAN  
End 376  
Score .93

Seq. No. 27759  
Gene No. 57313  
Start 349  
Name OJ000150\_18.0124.C31.o1.gs  
Start 349  
GI none  
Exons 349..651

Seq. ID OJ000150\_18.0124.C31  
Strand -  
End 651  
Method GENSCAN  
End 651  
Score .42

Seq. No. 27760  
Gene No. 57314  
Start 1448  
Name OJ000150\_18.0124.C32.o1.gp  
Start 1448  
GI uC-osf1M202089g10b1  
Exons 1448..1589

Seq. ID OJ000150\_18.0124.C32  
Strand +  
End 1589  
Method AAT/GAP  
End 1589  
Score 268

GI Descrip. '4584536/emb|CAB40766.1| 3.0e-13 (AL049608) cytochrome p450 like  
protein [Arabidopsis thaliana]'

Seq. No. 27760  
Gene No. 57315  
Start 1425  
Name OJ000150\_18.0124.C32.o1.gs  
Start 1425  
GI none  
Exons 1425..1517

Seq. ID OJ000150\_18.0124.C32  
Strand -  
End 1517  
Method GENSCAN  
End 1517  
Score .69

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57316	Strand	+
Start	121	End	943
Name	OJ000150_18.0124.C33.o1.gs	Method	GENSCAN
Start	121	End	943
GI	none	Score	.49
Exons	121..327, 426..672, 884..943		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57316	Strand	+
Start	121	End	943
Name	OJ000150_18.0124.C33.o1.gp	Method	AAT/GAP
Start	154	End	313
GI	none	Score	280
Exons	154..313		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57317	Strand	+
Start	2692	End	12793
Name	OJ000150_18.0124.C33.o2.gp	Method	AAT/GAP
Start	2685	End	3089
GI	uC-osf1M202089g10b1	Score	779
Exons	2685..3089		
GI Descrip.	'4584536/emb CAB40766.1  3.0e-13 (AL049608) cytochrome p450 like protein [Arabidopsis thaliana]'		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57317	Strand	+
Start	2692	End	12793
Name	OJ000150_18.0124.C33.o2.gs	Method	GENSCAN
Start	2692	End	4301
GI	none	Score	1
Exons	2692..3588, 3669..4301		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57317	Strand	+
Start	2692	End	12793
Name	OJ000150_18.0124.C33.o1.np	Method	AAT/NAP
Start	2740	End	6506
GI	5915840	Score	1024
Exons	2740..3588, 5886..6506		
GI Descrip.	CYTOCHROME P450 71D11 gi 2367431 (AF000403) putative cytochrome P450 [Lotus japonicus]		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57317	Strand	+
Start	2692	End	12793
Name	OJ000150_18.0124.C33.o3.gs	Method	GENSCAN
Start	4860	End	8779
GI	none	Score	.62
Exons	4860..5792, 5886..6470, 7049..7106, 7154..8034, 8126..8779		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57317	Strand	+
Start	2692	End	12793
Name	OJ000150_18.0124.C33.o2.np	Method	AAT/NAP

Start	7129	End	8755
GI	166949	Score	926
Exons	7129..8034, 8126..8755		
GI Descrip.	(M32885) cytochrome P-450LXXIA1 (cyp71A1) [Persea americana]		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57317	Strand	+
Start	2692	End	12793
Name	OJ000150_18.0124.C33.o3.np	Method	AAT/NAP
Start	8600	End	12793
GI	2911044	Score	248
Exons	8600..8678, 9797..10069, 11805..11849, 12061..12133, 12556..12793		
GI Descrip.	(AL021961) putative protein [Arabidopsis thaliana]		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57317	Strand	+
Start	2692	End	12793
Name	OJ000150_18.0124.C33.o4.gp	Method	AAT/GAP
Start	9613	End	12679
GI	23689_1.R1084	Score	1091
Exons	9613..9665, 9798..10069, 11805..11849, 12061..12133, 12326..12423, 12609..12679		
GI Descrip.	'2911044/emb CAA17554  2.0e-30 (AL021961) putative protein [Arabidopsis thaliana]'		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57318	Strand	-
Start	6440	End	12695
Name	OJ000150_18.0124.C33.o3.tm	Method	TBLASTX:Maize
Start	111	End	773
GI	none	Score	95
Exons	111..218, 111..218, 116..229, 249..326, 265..327, 266..337, 382..507, 427..507, 428..508, 586..750, 588..773, 589..753		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57318	Strand	-
Start	6440	End	12695
Name	OJ000150_18.0124.C33.o1.ts	Method	TBLASTX:Soybean
Start	2796	End	8701
GI	none	Score	317
Exons	2796..2990, 2809..3186, 3039..3140, 3217..3477, 3657..3779, 3795..3863, 3903..3968, 4014..4265, 4019..4126, 4992..5030, 5013..5186, 5072..5164, 5223..5360, 5237..5320, 5403..5666, 5712..5789, 5886..6074, 5888..6100, 6107..6481, 6114..6479, 7216..7236, 7291..7584, 7675..7902, 7950..8030, 7951..8031, 8126..8284, 8128..8226, 8395..8457, 8399..8479, 8476..8598, 8480..8701		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57318	Strand	-
Start	6440	End	12695
Name	OJ000150_18.0124.C33.o2.tm	Method	TBLASTX:Maize
Start	2796	End	7602
GI	none	Score	76
Exons	2796..2885, 2809..2847, 2847..3149, 2848..3189, 3040..3189, 4991..5206, 4992..5213, 5013..5261, 5216..5356, 5217..5357,		

7155..7283, 7195..7236, 7250..7330, 7275..7571, 7291..7581,  
7417..7602

Seq. No. 27761 Seq. ID OJ000150\_18.0124.C33  
Gene No. 57318 Strand -  
Start 6440 End 12695  
Name OJ000150\_18.0124.C33.o2.tc Method TBLASTX:Cress  
Start 2818 End 7584  
GI none Score 266  
Exons 2818..3186, 5022..5204, 5232..5345, 7291..7584

Seq. No. 27761 Seq. ID OJ000150\_18.0124.C33  
Gene No. 57318 Strand -  
Start 6440 End 12695  
Name OJ000150\_18.0124.C33.o1.tm Method TBLASTX:Maize  
Start 3402 End 8608  
GI none Score 88  
Exons 3402..3461, 3403..3477, 3493..3588, 3494..3544, 3529..3588,  
3537..3593, 3668..3742, 3669..3788, 3738..3788, 3786..3863,  
3794..3967, 3903..3968, 3924..3968, 4014..4139, 4025..4126,  
4098..4139, 5585..5644, 5586..5666, 5712..5792, 5748..5786,  
5885..6349, 5886..6074, 5888..6343, 6114..6347, 7875..7904,  
7951..8034, 7963..8028, 8125..8229, 8126..8245, 8126..8245,  
8255..8326, 8255..8329, 8392..8484, 8393..8470, 8476..8604,  
8477..8608, 8564..8608

Seq. No. 27761 Seq. ID OJ000150\_18.0124.C33  
Gene No. 57318 Strand -  
Start 6440 End 12695  
Name OJ000150\_18.0124.C33.o2.tw Method TBLASTX:Wheat  
Start 3541 End 8452  
GI none Score 39  
Exons 3541..3588, 3656..3742, 3669..3785, 3789..3968, 5712..5792,  
5885..6193, 5886..6194, 7951..8028, 8125..8229, 8126..8242,  
8258..8326, 8270..8323, 8393..8452, 8398..8451

Seq. No. 27761 Seq. ID OJ000150\_18.0124.C33  
Gene No. 57318 Strand -  
Start 6440 End 12695  
Name OJ000150\_18.0124.C33.o1.tc Method TBLASTX:Cress  
Start 3669 End 8701  
GI none Score 89  
Exons 3669..3776, 3789..3863, 4014..4274, 4025..4126, 5886..6074,  
5897..5989, 6059..6442, 6132..6482, 8126..8242, 8264..8326,  
8372..8470, 8476..8595, 8483..8701

Seq. No. 27761 Seq. ID OJ000150\_18.0124.C33  
Gene No. 57318 Strand -  
Start 6440 End 12695  
Name OJ000150\_18.0124.C33.o1.tw Method TBLASTX:Wheat  
Start 4014 End 8714  
GI none Score 292  
Exons 4014..4289, 4019..4288, 6216..6497, 6219..6491, 6260..6502,  
8482..8661, 8483..8701, 8570..8713, 8586..8714

Seq. No. 27761 Seq. ID OJ000150\_18.0124.C33  
Gene No. 57318 Strand -

Start	6440	End	12695
Name	OJ000150_18.0124.C33.o4.tm	Method	TBLASTX:Maize
Start	5427	End	12695
GI	none	Score	37
Exons	5427..5522, 9733..9756, 9808..10071, 9831..10070, 11804..11860, 12034..12135, 12056..12136, 12057..12146, 12317..12427, 12323..12421, 12324..12428, 12607..12681, 12608..12679, 12609..12695		

Seq. No.	27761	Seq. ID	OJ000150_18.0124.C33
Gene No.	57318	Strand	-
Start	6440	End	12695
Name	OJ000150_18.0124.C33.o3.gp	Method	AAT/GAP
Start	6440	End	6656
GI	569091	Score	411
Exons	6440..6656		

Seq. No.	27762	Seq. ID	OJ000150_18.0124.C34
Gene No.	57319	Strand	+
Start	147	End	925
Name	OJ000150_18.0124.C34.o1.gs	Method	GENSCAN
Start	147	End	728
GI	none	Score	.94
Exons	147..156, 523..728		

Seq. No.	27762	Seq. ID	OJ000150_18.0124.C34
Gene No.	57319	Strand	+
Start	147	End	925
Name	OJ000150_18.0124.C34.o1.gp	Method	AAT/GAP
Start	517	End	925
GI	23689 1.R1084	Score	776
Exons	517..925		
GI Descrip.	'2911044/emb CAA17554  2.0e-30 (AL021961) putative protein [Arabidopsis thaliana]'		

Seq. No.	27762	Seq. ID	OJ000150_18.0124.C34
Gene No.	57320	Strand	-
Start	2062	End	2162
Name	OJ000150_18.0124.C34.o2.gs	Method	GENSCAN
Start	2062	End	2162
GI	none	Score	.99
Exons	2062..2162		

Seq. No.	27763	Seq. ID	OJ000150_18.0124.C35
Gene No.	57321	Strand	-
Start	903	End	3760
Name	OJ000150_18.0124.C35.o1.np	Method	AAT/NAP
Start	903	End	3760
GI	4467110	Score	1443
Exons	903..1001, 1294..1451, 1586..1818, 2268..2554, 3314..3760		
GI Descrip.	(AL035538) putative protein [Arabidopsis thaliana]		

Seq. No.	27763	Seq. ID	OJ000150_18.0124.C35
Gene No.	57321	Strand	-
Start	903	End	3760
Name	OJ000150_18.0124.C35.o1.gs	Method	GENSCAN
Start	1279	End	3742

GI none Score .68  
 Exons 1279..1451, 1586..1818, 2268..2554, 3314..3742

Seq. No. 27763 Seq. ID OJ000150\_18.0124.C35  
 Gene No. 57322 Strand -  
 Start 6186 End 7526  
 Name OJ000150\_18.0124.C35.o2.np Method AAT/NAP  
 Start 6186 End 7526  
 GI 4753648 Score 368  
 Exons 6186..6269, 6356..6421, 6884..6949, 7036..7091, 7263..7335, 7461..7526  
 GI Descrip. (AL049751) putative protein [Arabidopsis thaliana]

Seq. No. 27763 Seq. ID OJ000150\_18.0124.C35  
 Gene No. 57323 Strand -  
 Start 9786 End 10117  
 Name OJ000150\_18.0124.C35.o2.tc Method TBLASTX:Cress  
 Start 900 End 1751  
 GI none Score 111  
 Exons 900..1007, 904..1005, 1351..1452, 1368..1442, 1384..1443, 1385..1453, 1587..1748, 1587..1751

Seq. No. 27763 Seq. ID OJ000150\_18.0124.C35  
 Gene No. 57323 Strand -  
 Start 9786 End 10117  
 Name OJ000150\_18.0124.C35.o1.ts Method TBLASTX:Soybean  
 Start 1309 End 1812  
 GI none Score 116  
 Exons 1309..1452, 1318..1446, 1319..1453, 1587..1811, 1587..1811, 1588..1812

Seq. No. 27763 Seq. ID OJ000150\_18.0124.C35  
 Gene No. 57323 Strand -  
 Start 9786 End 10117  
 Name OJ000150\_18.0124.C35.o2.ts Method TBLASTX:Soybean  
 Start 2306 End 2527  
 GI none Score 111  
 Exons 2306..2527, 2307..2525

Seq. No. 27763 Seq. ID OJ000150\_18.0124.C35  
 Gene No. 57323 Strand -  
 Start 9786 End 10117  
 Name OJ000150\_18.0124.C35.o1.tc Method TBLASTX:Cress  
 Start 2336 End 3556  
 GI none Score 54  
 Exons 2336..2410, 2343..2387, 2408..2443, 2412..2438, 2444..2470, 2471..2557, 2472..2555, 3314..3556, 3315..3548

Seq. No. 27763 Seq. ID OJ000150\_18.0124.C35  
 Gene No. 57323 Strand -  
 Start 9786 End 10117  
 Name OJ000150\_18.0124.C35.o1.tm Method TBLASTX:Maize  
 Start 2424 End 3467  
 GI none Score 198  
 Exons 2424..2555, 2426..2578, 2426..2557, 2434..2565, 3300..3467, 3306..3362, 3314..3466



Seq. No.	27763	Seq. ID	OJ000150_18.0124.C35
Gene No.	57323	Strand	-
Start	9786	End	10117
Name	OJ000150_18.0124.C35.o3.gs	Method	GENSCAN
Start	9786	End	10117
GI	none	Score	.49
Exons	9786..10117		

Seq. No.	27764	Seq. ID	OJ000150_18.0124.C36
Gene No.	57324	Strand	-
Start	1	End	714
Name	OJ000150_18.0124.C36.o1.np	Method	AAT/NAP
Start	1	End	714
GI	4753648	Score	99
Exons	1..36, 257..322, 409..464, 636..714		
GI Descrip.	(AL049751) putative protein [Arabidopsis thaliana]		

Seq. No.	27764	Seq. ID	OJ000150_18.0124.C36
Gene No.	57324	Strand	-
Start	1	End	714
Name	OJ000150_18.0124.C36.o1.gs	Method	GENSCAN
Start	257	End	573
GI	none	Score	.68
Exons	257..391, 409..573		

Seq. No.	27765	Seq. ID	OJ000150_18.0124.C39
Gene No.	57325	Strand	+
Start	9	End	116
Name	OJ000150_18.0124.C39.o1.gs	Method	GENSCAN
Start	9	End	116
GI	none	Score	.8
Exons	9..116		

Seq. No.	27766	Seq. ID	OJ000150_18.0124.C42
Gene No.	57326	Strand	-
Start	155	End	854
Name	OJ000150_18.0124.C42.o1.np	Method	AAT/NAP
Start	155	End	854
GI	5295971	Score	808
Exons	155..854		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	27766	Seq. ID	OJ000150_18.0124.C42
Gene No.	57326	Strand	-
Start	155	End	854
Name	OJ000150_18.0124.C42.o1.tm	Method	TBLASTX:Maize
Start	189	End	578
GI	none	Score	93
Exons	189..269, 189..269, 190..270, 191..271, 258..467, 271..504, 271..468, 465..503, 501..578, 503..577		

Seq. No.	27766	Seq. ID	OJ000150_18.0124.C42
Gene No.	57326	Strand	-
Start	155	End	854
Name	OJ000150_18.0124.C42.o1.ts	Method	TBLASTX:Soybean

Start 316  
 GI none  
 Exons 316..468, 320..409, 503..628

End 628  
 Score 58

Seq. No. 27767  
 Gene No. 57327  
 Start 4347  
 Name OJ000150\_18.0124.C43.o2.np  
 Start 4347  
 GI 5903051  
 Exons 4347..4620, 4730..5327  
 GI Descrip. (AC008016) Contains PF|00069 Eukaryotic protein kinase domain.  
 ESTs gb|W43822, gb|T20475 and gb|AA586152 come from this gene.  
 [Arabidopsis thaliana]

Seq. ID OJ000150\_18.0124.C43  
 Strand +  
 End 5665  
 Method AAT/NAP  
 End 5327  
 Score 792

Seq. No. 27767  
 Gene No. 57327  
 Start 4347  
 Name OJ000150\_18.0124.C43.o1.gp  
 Start 4355  
 GI 70315\_1.R1084  
 Exons 4355..4620, 4730..4817  
 GI Descrip. '5091508/dbj|BAA78743.1| 2.0e-55 (AB023482) ESTs  
 C22458(C62866),C22459(C62866) correspond to a region of the  
 predicted gene.; Similar to genomic sequence of Arabidopsis  
 thaliana BAC F8A5, complete sequence.(AC002292) [Oryza sativa]'

Seq. ID OJ000150\_18.0124.C43  
 Strand +  
 End 5665  
 Method AAT/GAP  
 End 4817  
 Score 661

Seq. No. 27767  
 Gene No. 57327  
 Start 4347  
 Name OJ000150\_18.0124.C43.o2.gp  
 Start 4983  
 GI 62580\_1.R1084  
 Exons 4983..5665  
 GI Descrip. '5091508/dbj|BAA78743.1| 1.0e-16 (AB023482) ESTs  
 C22458(C62866),C22459(C62866) correspond to a region of the  
 predicted gene.; Similar to genomic sequence of Arabidopsis  
 thaliana BAC F8A5, complete sequence.(AC002292) [Oryza sativa]'

Seq. ID OJ000150\_18.0124.C43  
 Strand +  
 End 5665  
 Method AAT/GAP  
 End 5665  
 Score 1214

Seq. No. 27767  
 Gene No. 57328  
 Start 7386  
 Name OJ000150\_18.0124.C43.o3.np  
 Start 7386  
 GI 2864624  
 Exons 7386..7420, 8256..10464  
 GI Descrip. (AL021811) putative protein [Arabidopsis thaliana]

Seq. ID OJ000150\_18.0124.C43  
 Strand +  
 End 10464  
 Method AAT/NAP  
 End 10464  
 Score 892

Seq. No. 27767  
 Gene No. 57328  
 Start 7386  
 Name OJ000150\_18.0124.C43.o3.gp  
 Start 8845  
 GI 28825\_1.R1084  
 Exons 8845..9404  
 GI Descrip. '2864624/emb|CAA16971| 2.0e-24 (AL021811) putative protein  
 [Arabidopsis thaliana]'

Seq. ID OJ000150\_18.0124.C43  
 Strand +  
 End 10464  
 Method AAT/GAP  
 End 9404  
 Score 1088

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57329	Strand	+
Start	19913	End	20200
Name	OJ000150_18.0124.C43.o5.gs	Method	GENSCAN
Start	19913	End	20200
GI	none	Score	.9
Exons	19913..20200		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57330	Strand	-
Start	1	End	3505
Name	OJ000150_18.0124.C43.o1.np	Method	AAT/NAP
Start	1	End	3505
GI	5295971	Score	4058
Exons	1..3505		

GI Descrip. (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57331	Strand	-
Start	10163	End	10618
Name	OJ000150_18.0124.C43.o4.gp	Method	AAT/GAP
Start	10163	End	10618
GI	uC-osflcyp088a08a1	Score	893
Exons	10163..10618		

GI Descrip. '3047095.4.0e-37 (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 72.39) [Arabidopsis thaliana]'

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57332	Strand	-
Start	11531	End	13539
Name	OJ000150_18.0124.C43.o3.gs	Method	GENSCAN
Start	11531	End	13539
GI	none	Score	.63
Exons	11531..11856, 11934..12207, 13069..13539		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57333	Strand	-
Start	14649	End	17843
Name	OJ000150_18.0124.C43.o4.gs	Method	GENSCAN
Start	14649	End	17831
GI	none	Score	.75
Exons	14649..14666, 16033..16414, 16481..16641, 16878..17831		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57333	Strand	-
Start	14649	End	17843
Name	OJ000150_18.0124.C43.o4.np	Method	AAT/NAP
Start	16032	End	17843
GI	5915839	Score	997
Exons	16032..16641, 16878..16979, 17007..17843		
GI Descrip.	CYTOCHROME P450 71D10 gi 2739000 gb AAB94588  (AF022459) CYP71D10p [Glycine max]		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57334	Strand	-
Start	20672	End	22485
Name	OJ000150_18.0124.C43.o6.gs	Method	GENSCAN
Start	20672	End	22456
GI	none	Score	.98
Exons	20672..21292, 21541..21797, 21871..22456		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57334	Strand	-
Start	20672	End	22485
Name	OJ000150_18.0124.C43.o5.np	Method	AAT/NAP
Start	20684	End	22485
GI	5915839	Score	922
Exons	20684..21292, 21541..22485		
GI Descrip.	CYTOCHROME P450 71D10 gi 2739000 gb AAB94588  (AF022459) CYP71D10p [Glycine max]		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57335	Strand	-
Start	24602	End	24790
Name	OJ000150_18.0124.C43.o7.gs	Method	GENSCAN
Start	24602	End	24790
GI	none	Score	.95
Exons	24602..24790		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57336	Strand	-
Start	26871	End	28677
Name	OJ000150_18.0124.C43.o8.gs	Method	GENSCAN
Start	26871	End	28677
GI	none	Score	.82
Exons	26871..27541, 27684..27720, 27754..28677		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o5.tw	Method	TBLASTX:Wheat
Start	90	End	429
GI	none	Score	55
Exons	90..323, 367..429		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o4.ts	Method	TBLASTX:Soybean
Start	105	End	597
GI	5509260	Score	124
Exons	105..323, 127..288, 344..523, 367..597		
GI Descrip.	-		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o9.tm	Method	TBLASTX:Maize
Start	255	End	558
GI	none	Score	119

Exons 255..323, 367..558, 389..556

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o5.ts	Method	TBLASTX:Soybean
Start	961	End	1424
GI	none	Score	85
Exons	961..1107, 1132..1200, 1200..1424, 1204..1356		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o3.tm	Method	TBLASTX:Maize
Start	1045	End	1430
GI	none	Score	233
Exons	1045..1200, 1046..1201, 1190..1399, 1200..1430, 1201..1401		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o4.tw	Method	TBLASTX:Wheat
Start	1123	End	1625
GI	none	Score	111
Exons	1123..1200, 1200..1430, 1479..1625		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o6.ts	Method	TBLASTX:Soybean
Start	1479	End	1769
GI	none	Score	200
Exons	1479..1769, 1584..1664		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o6.tw	Method	TBLASTX:Wheat
Start	1698	End	2054
GI	none	Score	37
Exons	1698..1775, 1698..1766, 1767..1967, 1773..1994, 2001..2054, 2002..2040		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o11.tm	Method	TBLASTX:Maize
Start	1766	End	1968
GI	none	Score	218
Exons	1766..1918, 1767..1964, 1767..1967, 1768..1968		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o2.tm	Method	TBLASTX:Maize
Start	1999	End	2665
GI	none	Score	282

Exons 1999..2208, 2000..2245, 2001..2243, 2220..2339, 2234..2338,  
2250..2348, 2322..2447, 2370..2429, 2400..2510, 2415..2663,  
2417..2665, 2417..2653, 2446..2664

Seq. No. 27767 Seq. ID OJ000150\_18.0124.C43  
Gene No. 57337 Strand -  
Start 32548 End 39570  
Name OJ000150\_18.0124.C43.o10.tm Method TBLASTX:Maize  
Start 2875 End 3128  
GI none Score 172  
Exons 2875..2997, 2877..2999, 2877..2999, 2914..3009, 3003..3128,  
3003..3119, 3004..3120, 3005..3127

Seq. No. 27767 Seq. ID OJ000150\_18.0124.C43  
Gene No. 57337 Strand -  
Start 32548 End 39570  
Name OJ000150\_18.0124.C43.o1.tm Method TBLASTX:Maize  
Start 4354 End 5401  
GI none Score 426  
Exons 4354..4620, 4355..4621, 4731..5021, 4745..4933, 4781..5023,  
5016..5264, 5016..5264, 5131..5268, 5357..5401, 5358..5399

Seq. No. 27767 Seq. ID OJ000150\_18.0124.C43  
Gene No. 57337 Strand -  
Start 32548 End 39570  
Name OJ000150\_18.0124.C43.o2.tc Method TBLASTX:Cress  
Start 4358 End 5213  
GI none Score 152  
Exons 4358..4621, 4731..5213, 4769..4924

Seq. No. 27767 Seq. ID OJ000150\_18.0124.C43  
Gene No. 57337 Strand -  
Start 32548 End 39570  
Name OJ000150\_18.0124.C43.o3.ts Method TBLASTX:Soybean  
Start 4358 End 5237  
GI none Score 181  
Exons 4358..4549, 4568..4621, 4731..5054, 4748..4924, 5064..5237

Seq. No. 27767 Seq. ID OJ000150\_18.0124.C43  
Gene No. 57337 Strand -  
Start 32548 End 39570  
Name OJ000150\_18.0124.C43.o3.tw Method TBLASTX:Wheat  
Start 4716 End 5000  
GI none Score 275  
Exons 4716..5000, 4748..4912

Seq. No. 27767 Seq. ID OJ000150\_18.0124.C43  
Gene No. 57337 Strand -  
Start 32548 End 39570  
Name OJ000150\_18.0124.C43.o6.tm Method TBLASTX:Maize  
Start 8569 End 9069  
GI none Score 169  
Exons 8569..8718, 8572..8712, 8613..8714, 8677..9069, 8745..8852,  
8747..8860, 8923..8970, 8924..9067, 8955..9068

Seq. No. 27767 Seq. ID OJ000150\_18.0124.C43  
Gene No. 57337 Strand -

Start	32548	End	39570
Name	OJ000150_18.0124.C43.o2.ts	Method	TBLASTX:Soybean
Start	8908	End	10083
GI	none	Score	271
Exons	8908..9348, 9042..9296, 9335..9388, 9412..9906, 9937..10083		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o8.tm	Method	TBLASTX:Maize
Start	9501	End	9759
GI	none	Score	173
Exons	9501..9722, 9501..9635, 9502..9759, 9503..9739, 9511..9753		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o5.tm	Method	TBLASTX:Maize
Start	9766	End	10088
GI	none	Score	368
Exons	9766..10083, 9766..10086, 9768..10088		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o4.tm	Method	TBLASTX:Maize
Start	11594	End	38273
GI	none	Score	135
Exons	11594..11908, 11604..11909, 11906..12064, 11908..12075, 12076..12183, 12086..12196, 16042..16521, 16048..16161, 16202..16498, 16526..16630, 16534..16641, 20705..21121, 20705..21160, 20739..21158, 21170..21301, 21186..21254, 26281..26355, 26904..27323, 26904..27359, 27369..27500, 27391..27492, 37686..38045, 37693..38097, 37839..38099, 38151..38273, 38173..38229, 38187..38237		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o1.ts	Method	TBLASTX:Soybean
Start	11600	End	39468
GI	none	Score	214
Exons	11600..11908, 11601..11909, 11906..12196, 11908..12186, 13132..13170, 13219..13317, 13363..13437, 16048..16641, 16060..16644, 16202..16645, 16923..16967, 17091..17279, 17388..17603, 17610..17717, 20684..21295, 20684..21301, 20733..21296, 21746..21982, 21947..22240, 26281..26352, 26367..26417, 26883..27317, 26883..27500, 26884..27477, 27387..27494, 28168..28461, 37665..38039, 37666..38097, 37697..38080, 38085..38276, 38167..38274, 38698..38745, 38782..39054, 39139..39354, 39397..39468		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o2.tw	Method	TBLASTX:Wheat
Start	11603	End	37950

GI	none	Score	106
Exons	11603..11728, 11603..11872, 11607..11885, 16048..16305, 16054..16305, 20687..20956, 20687..20956, 20730..20969, 26281..26355, 26886..27155, 26886..27155, 26890..27168, 37647..37916, 37647..37937, 37648..37950		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o1.tc	Method	TBLASTX:Cress
Start	11609	End	38273
GI	none	Score	93
Exons	11609..11908, 11666..11908, 11772..11909, 11906..12193, 11908..12186, 16048..16641, 16105..16503, 16202..16636, 16540..16641, 20693..21301, 20739..21281, 20783..21292, 26892..27503, 27055..27480, 37674..38045, 37743..38051, 37834..38094, 38085..38273, 38167..38268		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o1.tw	Method	TBLASTX:Wheat
Start	11906	End	38739
GI	none	Score	302
Exons	11906..12193, 11908..12186, 11913..12206, 11952..12191, 16333..16641, 16334..16642, 16878..16967, 16882..16965, 20987..21292, 20988..21293, 21541..21630, 21547..21630, 27186..27491, 27187..27492, 27754..27843, 27760..27843, 37968..38273, 37969..38094, 37980..38111, 38152..38274, 38647..38736, 38653..38739		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o3.tc	Method	TBLASTX:Cress
Start	13135	End	39561
GI	none	Score	96
Exons	13135..13170, 13213..13314, 17388..17603, 17664..17717, 21956..22240, 22068..22220, 28177..28461, 28289..28441, 28516..28569, 39139..39354, 39248..39355, 39415..39561		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o7.tm	Method	TBLASTX:Maize
Start	13135	End	39475
GI	none	Score	69
Exons	13135..13170, 13204..13314, 13381..13440, 17061..17282, 17125..17280, 17391..17453, 17410..17604, 17490..17603, 17650..17700, 17652..17720, 21767..21931, 21774..21932, 21953..22090, 22002..22085, 22136..22240, 22146..22241, 22301..22357, 27995..28153, 28174..28311, 28223..28306, 28357..28461, 28388..28462, 28522..28578, 38854..39045, 38863..38982, 39142..39204, 39250..39354, 39251..39355, 39412..39474, 39419..39475		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
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Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o10.gs	Method	GENSCAN
Start	32548	End	39570
GI	none	Score	.58
Exons	32548..32992, 33156..33521, 33930..33972, 34685..34752, 34874..35473, 37284..37362, 37760..37962, 37978..38273, 38647..39570		

Seq. No.	27767	Seq. ID	OJ000150_18.0124.C43
Gene No.	57337	Strand	-
Start	32548	End	39570
Name	OJ000150_18.0124.C43.o7.np	Method	AAT/NAP
Start	37659	End	39561
GI	5524157	Score	953
Exons	37659..38273, 38647..38754, 38782..39561		
GI Descrip.	(AF124816) cytochrome p450 isoform PM17 [Mentha x piperita]		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57338	Strand	-
Start	470	End	2645
Name	OJ000150_18.0124.C44.o1.np	Method	AAT/NAP
Start	470	End	2645
GI	5915839	Score	953
Exons	470..1082, 1704..2645		
GI Descrip.	CYTOCHROME P450 71D10 gi 2739000 gb AAB94588  (AF022459) CYP71D10p [Glycine max]		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o1.tw	Method	TBLASTX:Wheat
Start	467	End	4752
GI	none	Score	44
Exons	467..736, 469..513, 485..727, 519..737, 4473..4751, 4482..4751, 4525..4752		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o1.ts	Method	TBLASTX:Soybean
Start	476	End	6150
GI	none	Score	123
Exons	476..853, 566..808, 642..854, 880..1071, 936..1082, 1707..1775, 1836..2108, 2136..2408, 2418..2522, 2476..2520, 4488..4859, 4497..4841, 4528..4866, 4885..5076, 4899..5096, 5338..5406, 5467..5730, 5833..6051, 6037..6150		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o1.tc	Method	TBLASTX:Cress
Start	485	End	5096
GI	none	Score	81
Exons	485..853, 572..787, 642..821, 853..1071, 870..1082, 936..1082, 4494..4859, 4545..4934, 4651..4950, 4899..5096, 4978..5076		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o1.tm	Method	TBLASTX:Maize
Start	491	End	5111
GI	none	Score	47
Exons	491..853, 525..587, 645..830, 683..841, 847..906, 954..1082, 961..1089, 4500..4859, 4531..4944, 4685..4909, 4902..4955, 4959..5111, 4966..5088		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o2.tw	Method	TBLASTX:Wheat
Start	770	End	5406
GI	none	Score	87
Exons	770..853, 771..854, 849..1082, 853..1083, 869..1060, 942..1082, 1704..1775, 1710..1796, 1711..1776, 4782..5087, 4783..5088, 5339..5401, 5341..5406		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o2.tm	Method	TBLASTX:Maize
Start	1876	End	6151
GI	none	Score	89
Exons	1876..2031, 1908..2099, 1917..2096, 2136..2408, 2151..2297, 2170..2409, 2466..2525, 2473..2520, 5539..5748, 5548..5727, 5813..5890, 5830..6051, 5933..6025, 6112..6150, 6119..6151		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o2.tc	Method	TBLASTX:Cress
Start	2145	End	6144
GI	none	Score	78
Exons	2145..2408, 2302..2409, 2469..2522, 5833..6051, 6115..6144		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o2.np	Method	AAT/NAP
Start	4479	End	6291
GI	5915839	Score	983
Exons	4479..5087, 5335..6291		
GI Descrip.	CYTOCHROME P450 71D10 gi 2739000 gb AAB94588  (AF022459) CYP71D10p [Glycine max]		

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o1.gp	Method	AAT/GAP
Start	4654	End	5532
GI	12793_1.R1084	Score	1149
Exons	4654..5087, 5335..5532		
GI Descrip.	'5915837/sp O81974 C7D8 SOYBN 1.0e-49 CYTOCHROME P450 71D8 (P450 CP7) >gi_3334667_emb_CAA71517_ (Y10493) putative cytochrome P450		

[Glycine max]

Seq. No.	27768	Seq. ID	OJ000150_18.0124.C44
Gene No.	57339	Strand	-
Start	4479	End	9839
Name	OJ000150_18.0124.C44.o3.np	Method	AAT/NAP
Start	6035	End	9839
GI	6721547	Score	82
Exons	6035..6099, 9735..9839		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	27769	Seq. ID	OJ000150_18.0124.C47
Gene No.	57340	Strand	-
Start	1	End	294
Name	OJ000150_18.0124.C47.o1.np	Method	AAT/NAP
Start	1	End	294
GI	5903051	Score	204
Exons	1..294		
GI Descrip.	(AC008016) Contains PF 00069 Eukaryotic protein kinase domain. ESTs gb W43822, gb T20475 and gb AA586152 come from this gene. [Arabidopsis thaliana]		

Seq. No.	27769	Seq. ID	OJ000150_18.0124.C47
Gene No.	57340	Strand	-
Start	1	End	294
Name	OJ000150_18.0124.C47.o1.gp	Method	AAT/GAP
Start	43	End	272
GI	82303 1.R1084	Score	263
Exons	43..272		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	27769	Seq. ID	OJ000150_18.0124.C47
Gene No.	57340	Strand	-
Start	1	End	294
Name	OJ000150_18.0124.C47.o1.tc	Method	TBLASTX:Cress
Start	109	End	261
GI	none	Score	61
Exons	109..261, 114..191		

Seq. No.	27769	Seq. ID	OJ000150_18.0124.C47
Gene No.	57340	Strand	-
Start	1	End	294
Name	OJ000150_18.0124.C47.o1.tm	Method	TBLASTX:Maize
Start	109	End	274
GI	none	Score	58
Exons	109..258, 112..162, 114..203, 185..256, 242..274		

Seq. No.	27769	Seq. ID	OJ000150_18.0124.C47
Gene No.	57340	Strand	-
Start	1	End	294
Name	OJ000150_18.0124.C47.o1.ts	Method	TBLASTX:Soybean
Start	109	End	247
GI	none	Score	59
Exons	109..246, 113..145, 116..247, 117..188, 185..247		

Seq. No.	27769	Seq. ID	OJ000150_18.0124.C47
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Gene No.	57340	Strand	-
Start	1	End	294
Name	OJ000150_18.0124.C47.o1.gs	Method	GENSCAN
Start	112	End	271
GI	none	Score	.84
Exons	112..271		
Seq. No.	27770	Seq. ID	OJ000150_18.0124.C48
Gene No.	57341	Strand	+
Start	270	End	477
Name	OJ000150_18.0124.C48.o1.gs	Method	GENSCAN
Start	270	End	477
GI	none	Score	.9
Exons	270..477		
Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57342	Strand	+
Start	3835	End	4042
Name	OJ000150_18.0124.C49.o1.gs	Method	GENSCAN
Start	3835	End	4042
GI	none	Score	.78
Exons	3835..4042		
Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o1.gp	Method	AAT/GAP
Start	4121	End	4729
GI	17099_1.R1084	Score	1053
Exons	4121..4729		
GI Descrip.	'5915836/sp P93531 C7D7_SOLCH 3.0e-46 CYTOCHROME P450 71D7 >gi_1762144 (U48435) putative cytochrome P450 [Solanum chacoense]'		
Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o1.ts	Method	TBLASTX:Soybean
Start	4168	End	6122
GI	none	Score	39
Exons	4168..4239, 4270..4599, 4270..4641, 4271..4648, 4667..4858, 4681..4866, 5326..5388, 5544..5696, 5736..6008, 6018..6122		
Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o2.gs	Method	GENSCAN
Start	4243	End	6239
GI	none	Score	.74
Exons	4243..4869, 5323..5591, 5603..6239		
Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o1.tw	Method	TBLASTX:Wheat
Start	4245	End	4546
GI	none	Score	101

Exons 4245..4493, 4248..4478, 4264..4533, 4264..4533, 4268..4546

Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o1.np	Method	AAT/NAP
Start	4252	End	6212
GI	5713172	Score	1048
Exons	4252..4869, 5323..6212		
GI Descrip.	(AF166332) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o1.tm	Method	TBLASTX:Maize
Start	4261	End	4869
GI	none	Score	228
Exons	4261..4869, 4355..4690		

Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o1.tc	Method	TBLASTX:Cress
Start	4270	End	4866
GI	none	Score	334
Exons	4270..4641, 4277..4858, 4681..4866		

Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o2.tw	Method	TBLASTX:Wheat
Start	4561	End	5415
GI	none	Score	263
Exons	4561..4869, 4562..4870, 4742..4876, 5323..5388, 5329..5415		

Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o2.tm	Method	TBLASTX:Maize
Start	5508	End	6140
GI	none	Score	129
Exons	5508..5696, 5517..5696, 5736..6008, 5737..6009, 6063..6140		

Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o2.tc	Method	TBLASTX:Cress
Start	5754	End	6128
GI	none	Score	97
Exons	5754..6008, 5773..6009, 6069..6128		

Seq. No.	27771	Seq. ID	OJ000150_18.0124.C49
Gene No.	57343	Strand	-
Start	4121	End	6239
Name	OJ000150_18.0124.C49.o2.gp	Method	AAT/GAP
Start	5785	End	6234
GI	52573_1.R1084	Score	833

Exons 5785..6234  
 GI Descrip. '5915838/sp|O81971|C7D9\_SOYBN 6.0e-23 CYTOCHROME P450 71D9 (P450 CP3) >gi\_3334661\_emb\_CAA71514\_ (Y10490) putative cytochrome P450 [Glycine max]'

Seq. No. 27772 Seq. ID OJ000150\_18.0124.C50  
 Gene No. 57344 Strand -  
 Start 6898 End 9855  
 Name OJ000150\_18.0124.C50.o1.gp Method AAT/GAP  
 Start 6677 End 7282  
 GI 17099\_2.R1084 Score 1142  
 Exons 6677..7282  
 GI Descrip. '5915839/sp|O48923|C7DA\_SOYBN 3.0e-39 CYTOCHROME P450 71D10 >gi\_2739000\_gb\_AAB94588\_ (AF022459) CYP71D10p [Glycine max]'

Seq. No. 27772 Seq. ID OJ000150\_18.0124.C50  
 Gene No. 57344 Strand -  
 Start 6898 End 9855  
 Name OJ000150\_18.0124.C50.o3.gs Method GENSCAN  
 Start 6898 End 9855  
 GI none Score .55  
 Exons 6898..7297, 7364..7524, 8938..9855

Seq. No. 27772 Seq. ID OJ000150\_18.0124.C50  
 Gene No. 57344 Strand -  
 Start 6898 End 9855  
 Name OJ000150\_18.0124.C50.o1.np Method AAT/NAP  
 Start 6907 End 9828  
 GI 5713172 Score 1068  
 Exons 6907..7524, 8938..9828  
 GI Descrip. (AF166332) cytochrome P450 [Nicotiana tabacum]

Seq. No. 27772 Seq. ID OJ000150\_18.0124.C50  
 Gene No. 57344 Strand -  
 Start 6898 End 9855  
 Name OJ000150\_18.0124.C50.o2.gp Method AAT/GAP  
 Start 9401 End 9850  
 GI 52573\_1.R1084 Score 877  
 Exons 9401..9850  
 GI Descrip. '5915838/sp|O81971|C7D9\_SOYBN 6.0e-23 CYTOCHROME P450 71D9 (P450 CP3) >gi\_3334661\_emb\_CAA71514\_ (Y10490) putative cytochrome P450 [Glycine max]'

Seq. No. 27772 Seq. ID OJ000150\_18.0124.C50  
 Gene No. 57345 Strand -  
 Start 10368 End 11232  
 Name OJ000150\_18.0124.C50.o2.tm Method TBLASTX:Maize  
 Start 1615 End 9756  
 GI none Score 113  
 Exons 1615..1692, 1631..1693, 5626..5676, 9124..9315, 9139..9312, 9158..9331, 9352..9624, 9386..9625, 9421..9630, 9623..9706, 9679..9756

Seq. No. 27772 Seq. ID OJ000150\_18.0124.C50  
 Gene No. 57345 Strand -  
 Start 10368 End 11232  
 Name OJ000150\_18.0124.C50.o1.ts Method TBLASTX:Soybean

Start	1628	End	9738
GI	none	Score	218
Exons	1628..1693, 5580..5621, 5626..5658, 6925..7296, 7046..7303, 7322..7513, 7325..7513, 7336..7521, 8941..9003, 9052..9324, 9364..9636, 9631..9738		

Seq. No.	27772	Seq. ID	OJ000150_18.0124.C50
Gene No.	57345	Strand	-
Start	10368	End	11232
Name	OJ000150_18.0124.C50.o2.tc	Method	TBLASTX:Cress
Start	1631	End	9744
GI	none	Score	65
Exons	1631..1690, 9361..9636, 9685..9744		

Seq. No.	27772	Seq. ID	OJ000150_18.0124.C50
Gene No.	57345	Strand	-
Start	10368	End	11232
Name	OJ000150_18.0124.C50.o1.tw	Method	TBLASTX:Wheat
Start	6906	End	7201
GI	none	Score	98
Exons	6906..7133, 6913..7173, 6919..7188, 6923..7201		

Seq. No.	27772	Seq. ID	OJ000150_18.0124.C50
Gene No.	57345	Strand	-
Start	10368	End	11232
Name	OJ000150_18.0124.C50.o1.tm	Method	TBLASTX:Maize
Start	6916	End	7524
GI	none	Score	91
Exons	6916..7524, 6979..7266, 7049..7345		

Seq. No.	27772	Seq. ID	OJ000150_18.0124.C50
Gene No.	57345	Strand	-
Start	10368	End	11232
Name	OJ000150_18.0124.C50.o1.tc	Method	TBLASTX:Cress
Start	6925	End	7521
GI	none	Score	102
Exons	6925..7296, 7015..7278, 7085..7513, 7336..7521		

Seq. No.	27772	Seq. ID	OJ000150_18.0124.C50
Gene No.	57345	Strand	-
Start	10368	End	11232
Name	OJ000150_18.0124.C50.o2.tw	Method	TBLASTX:Wheat
Start	7216	End	9030
GI	none	Score	141
Exons	7216..7524, 7217..7345, 7219..7353, 7394..7525, 7430..7531, 8938..9003, 8942..8977, 8944..9030		

Seq. No.	27772	Seq. ID	OJ000150_18.0124.C50
Gene No.	57345	Strand	-
Start	10368	End	11232
Name	OJ000150_18.0124.C50.o4.gs	Method	GENSCAN
Start	10368	End	11232
GI	none	Score	.86
Exons	10368..10415, 10992..11098, 11118..11232		

Seq. No.	27773	Seq. ID	OJ000150_18.0124.C51
Gene No.	57346	Strand	-

Start	1	End	585
Name	OJ000150_18.0124.C51.ol.gp	Method	AAT/GAP
Start	1	End	441
GI	52573_1.R1084	Score	862
Exons	1..441		
GI Descrip.	'5915838/sp O81971 C7D9_SOYBN 6.0e-23 CYTOCHROME P450 71D9 (P450 CP3) >gi_3334661_emb_CAA71514_ (Y10490) putative cytochrome P450 [Glycine max]'		

Seq. No.	27773	Seq. ID	OJ000150_18.0124.C51
Gene No.	57346	Strand	-
Start	1	End	585
Name	OJ000150_18.0124.C51.ol.np	Method	AAT/NAP
Start	1	End	585
GI	6739506	Score	260
Exons	1..346, 515..585		
GI Descrip.	(AF122821) cytochrome P450 [Capsicum annuum]		

Seq. No.	27773	Seq. ID	OJ000150_18.0124.C51
Gene No.	57346	Strand	-
Start	1	End	585
Name	OJ000150_18.0124.C51.ol.tm	Method	TBLASTX:Maize
Start	3	End	329
GI	none	Score	158
Exons	3..215, 4..216, 276..329, 280..312		

Seq. No.	27773	Seq. ID	OJ000150_18.0124.C51
Gene No.	57346	Strand	-
Start	1	End	585
Name	OJ000150_18.0124.C51.ol.ts	Method	TBLASTX:Soybean
Start	3	End	329
GI	none	Score	117
Exons	3..227, 222..329		

Seq. No.	27773	Seq. ID	OJ000150_18.0124.C51
Gene No.	57346	Strand	-
Start	1	End	585
Name	OJ000150_18.0124.C51.ol.gs	Method	GENSCAN
Start	12	End	446
GI	none	Score	.57
Exons	12..446		

Seq. No.	27774	Seq. ID	OJ000150_18.0124.C56
Gene No.	57347	Strand	+
Start	112	End	603
Name	OJ000150_18.0124.C56.ol.gs	Method	GENSCAN
Start	112	End	577
GI	none	Score	.56
Exons	112..577		

Seq. No.	27774	Seq. ID	OJ000150_18.0124.C56
Gene No.	57347	Strand	+
Start	112	End	603
Name	OJ000150_18.0124.C56.ol.np	Method	AAT/NAP
Start	121	End	603
GI	6739506	Score	245
Exons	121..603		



GI Descrip. (AF122821) cytochrome P450 [Capsicum annuum]

Seq. No.	27774	Seq. ID	OJ000150_18.0124.C56
Gene No.	57347	Strand	+
Start	112	End	603
Name	OJ000150_18.0124.C56.o1.tm	Method	TBLASTX:Maize
Start	247	End	561
GI	none	Score	50
Exons	247..282, 346..561, 372..560, 412..561		

Seq. No.	27774	Seq. ID	OJ000150_18.0124.C56
Gene No.	57347	Strand	+
Start	112	End	603
Name	OJ000150_18.0124.C56.o1.ts	Method	TBLASTX:Soybean
Start	247	End	564
GI	none	Score	59
Exons	247..309, 349..564		

Seq. No.	27774	Seq. ID	OJ000150_18.0124.C56
Gene No.	57347	Strand	+
Start	112	End	603
Name	OJ000150_18.0124.C56.o1.tc	Method	TBLASTX:Cress
Start	253	End	602
GI	none	Score	47
Exons	253..282, 346..564, 567..602		

Seq. No.	27775	Seq. ID	OJ000150_18.0124.C58
Gene No.	57348	Strand	-
Start	100	End	764
Name	OJ000150_18.0124.C58.o1.gs	Method	GENSCAN
Start	100	End	764
GI	none	Score	.71
Exons	100..219, 295..390, 723..764		

Seq. No.	27776	Seq. ID	OJ000150_18.0124.C61
Gene No.	57349	Strand	-
Start	101	End	398
Name	OJ000150_18.0124.C61.o1.gp	Method	AAT/GAP
Start	101	End	398
GI	17099_2.R1084	Score	538
Exons	101..398		

GI Descrip. '5915839/sp|O48923|C7DA\_SOYBN 3.0e-39 CYTOCHROME P450 71D10  
>gi\_2739000\_gb\_AAB94588\_ (AF022459) CYP71D10p [Glycine max]'

Seq. No.	27777	Seq. ID	OJ000150_18.0124.C66
Gene No.	57350	Strand	+
Start	124	End	251
Name	OJ000150_18.0124.C66.o1.gs	Method	GENSCAN
Start	124	End	251
GI	none	Score	.61
Exons	124..251		

Seq. No.	27778	Seq. ID	OJ000150_18.0124.C68
Gene No.	57351	Strand	+
Start	123	End	508
Name	OJ000150_18.0124.C68.o1.gs	Method	GENSCAN
Start	123	End	508

GI none  
Exons 123..212, 401..508

Score .65

Seq. No. 27779  
Gene No. 57352  
Start 320  
Name OJ000150\_18.0124.C71.ol.gs  
Start 320  
GI none  
Exons 320..421

Seq. ID OJ000150\_18.0124.C71  
Strand +  
End 421  
Method GENSCAN  
End 421  
Score .64

Seq. No. 27780  
Gene No. 57353  
Start 403  
Name OJ000150\_18.0124.C72.ol.np  
Start 403  
GI 5915838  
Exons 403..629

Seq. ID OJ000150\_18.0124.C72  
Strand +  
End 629  
Method AAT/NAP  
End 629  
Score 91

GI Descrip. CYTOCHROME P450 71D9 (P450 CP3) gi|3334661|emb|CAA71514|  
(Y10490) putative cytochrome P450 [Glycine max]

Seq. No. 27780  
Gene No. 57354  
Start 345  
Name OJ000150\_18.0124.C72.ol.gs  
Start 345  
GI none  
Exons 345..480, 486..587

Seq. ID OJ000150\_18.0124.C72  
Strand -  
End 587  
Method GENSCAN  
End 587  
Score .52

Seq. No. 27781  
Gene No. 57355  
Start 73  
Name OJ000150\_18.0124.C77.ol.gs  
Start 73  
GI none  
Exons 73..258

Seq. ID OJ000150\_18.0124.C77  
Strand +  
End 258  
Method GENSCAN  
End 258  
Score .52

Seq. No. 27782  
Gene No. 57356  
Start 424  
Name OJ000150\_18.0124.C78.ol.gs  
Start 424  
GI none  
Exons 424..477

Seq. ID OJ000150\_18.0124.C78  
Strand -  
End 477  
Method GENSCAN  
End 477  
Score .88

Seq. No. 27783  
Gene No. 57357  
Start 7524  
Name OJ000150\_18.0124.C80.ol.gp  
Start 7524  
GI 8022\_1.R1084  
Exons 7524..7784

Seq. ID OJ000150\_18.0124.C80  
Strand +  
End 7784  
Method AAT/GAP  
End 7784  
Score 298

GI Descrip. '5091496/dbj|AB023482.2|AB023482 3.0e-37 Oryza sativa genomic  
DNA, chromosome 6, clone P0680A03, complete sequence'

Seq. No. 27783  
Gene No. 57358

Seq. ID OJ000150\_18.0124.C80  
Strand +

Start	8701	End	11370
Name	OJ000150_18.0124.C80.o1.np		Method AAT/NAP
Start	8701	End	11352
GI	5915837	Score	1046
Exons	8701..8798, 9787..10603, 10741..11352		
GI Descrip.	CYTOCHROME P450 71D8 (P450 CP7) gi 3334667 emb CAA71517  (Y10493) putative cytochrome P450 [Glycine max]		

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57358	Strand	+
Start	8701	End	11370
Name	OJ000150_18.0124.C80.o5.gs	Method	GENSCAN
Start	9674	End	11370
GI	none	Score	.88
Exons	9674..10603, 10741..11370		

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57359	Strand	-
Start	3500	End	4313
Name	OJ000150_18.0124.C80.o2.gs	Method	GENSCAN
Start	3500	End	4313
GI	none	Score	.75
Exons	3500..3655, 4239..4313		

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57360	Strand	-
Start	5369	End	5695
Name	OJ000150_18.0124.C80.o3.gs	Method	GENSCAN
Start	5369	End	5695
GI	none	Score	.71
Exons	5369..5695		

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57361	Strand	
Start	9773	End	11376
Name	OJ000150_18.0124.C80.o1.ts	Method	TBLASTX:Soybean
Start	9773	End	11376
GI	none	Score	77
Exons	9773..9859, 9896..10135, 10253..10369, 10716..10841, 10738..11376, 10741..10929, 10972..11349		

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57361	Strand	
Start	9773	End	11376
Name	OJ000150_18.0124.C80.o2.tm	Method	TBLASTX:Maize
Start	9782	End	10419
GI	none	Score	99
Exons	9782..9838, 9802..9837, 9896..10135, 9901..9999, 9977..10147, 10219..10419, 10220..10402		

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57361	Strand	
Start	9773	End	11376
Name	OJ000150_18.0124.C80.o1.tc	Method	TBLASTX:Cress
Start	9788	End	11343
GI	none	Score	85
Exons	9788..9850, 9896..10135, 10716..10832, 10741..10857,		

10864..11343, 10914..11048, 10987..11304, 11145..11321

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57361	Strand	
Start	9773	End	11376
Name	OJ000150_18.0124.C80.o2.tw	Method	TBLASTX:Wheat
Start	10511	End	11049
GI	none	Score	64
Exons	10511..10588, 10537..10590, 10537..10599, 10538..10603, 10719..11048, 10741..11049		

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57361	Strand	
Start	9773	End	11376
Name	OJ000150_18.0124.C80.o1.tm	Method	TBLASTX:Maize
Start	10716	End	11349
GI	none	Score	482
Exons	10716..10844, 10732..11349, 10920..11048, 10996..11280, 11139..11303		

Seq. No.	27783	Seq. ID	OJ000150_18.0124.C80
Gene No.	57361	Strand	
Start	9773	End	11376
Name	OJ000150_18.0124.C80.o1.tw	Method	TBLASTX:Wheat
Start	11072	End	11346
GI	none	Score	380
Exons	11072..11272, 11074..11346, 11139..11342		

Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57362	Strand	+
Start	698	End	2971
Name	OJ000150_18.0124.C81.o1.gs	Method	GENSCAN
Start	698	End	2971
GI	none	Score	.93
Exons	698..739, 809..925, 1072..1167, 1243..1871, 1895..2198, 2327..2971		

Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57362	Strand	+
Start	698	End	2971
Name	OJ000150_18.0124.C81.o1.np	Method	AAT/NAP
Start	1279	End	2935
GI	5915839	Score	969
Exons	1279..2198, 2327..2935		
GI Descrip.	CYTOCHROME P450 71D10 gi 2739000 gb AAB94588  (AF022459) CYP71D10p [Glycine max]		

Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57363	Strand	+
Start	3987	End	4487
Name	OJ000150_18.0124.C81.o3.gp	Method	AAT/GAP
Start	3987	End	4487
GI	none	Score	676
Exons	3987..4177, 4261..4487		

Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57364	Strand	-

Start 2464  
 Name OJ000150\_18.0124.C81.o1.gp  
 Start 2464  
 GI 2798030  
 Exons 2464..2642

End 2642  
 Method AAT/GAP  
 End 2642  
 Score 293

Seq. No. 27784  
 Gene No. 57365  
 Start 3203  
 Name OJ000150\_18.0124.C81.o2.tm  
 Start 11  
 GI none  
 Exons 11..136, 3812..3895, 3823..3912, 3824..3907, 3825..3920, 3999..4175, 3999..4178, 4003..4185, 4003..4185, 4260..4448, 4263..4448, 4265..4456, 4448..4486

Seq. ID OJ000150\_18.0124.C81  
 Strand -  
 End 4620  
 Method TBLASTX:Maize  
 End 4486  
 Score 57

Seq. No. 27784  
 Gene No. 57365  
 Start 3203  
 Name OJ000150\_18.0124.C81.o3.tm  
 Start 1305  
 GI none  
 Exons 1305..1379, 1404..1454, 1435..1458, 1458..1514, 1512..1634, 1513..1695, 1513..1641, 1696..1731, 1702..1785, 1872..1991, 1872..2009

Seq. ID OJ000150\_18.0124.C81  
 Strand -  
 End 4620  
 Method TBLASTX:Maize  
 End 2009  
 Score 40

Seq. No. 27784  
 Gene No. 57365  
 Start 3203  
 Name OJ000150\_18.0124.C81.o1.tc  
 Start 1435  
 GI none  
 Exons 1435..1470, 1512..1619, 1513..1620, 2326..2418, 2327..2443, 2449..2763, 2450..2929

Seq. ID OJ000150\_18.0124.C81  
 Strand -  
 End 4620  
 Method TBLASTX:Cress  
 End 2929  
 Score 53

Seq. No. 27784  
 Gene No. 57365  
 Start 3203  
 Name OJ000150\_18.0124.C81.o1.ts  
 Start 1512  
 GI none  
 Exons 1512..1619, 1513..1695, 1693..1725, 1875..2111, 2100..2198, 2326..2772, 2327..2920, 2807..2920

Seq. ID OJ000150\_18.0124.C81  
 Strand -  
 End 4620  
 Method TBLASTX:Soybean  
 End 2920  
 Score 149

Seq. No. 27784  
 Gene No. 57365  
 Start 3203  
 Name OJ000150\_18.0124.C81.o1.tm  
 Start 2043  
 GI none  
 Exons 2043..2114, 2097..2198, 2326..2781, 2327..2773

Seq. ID OJ000150\_18.0124.C81  
 Strand -  
 End 4620  
 Method TBLASTX:Maize  
 End 2781  
 Score 53

Seq. No. 27784  
 Gene No. 57365  
 Start 3203  
 Name OJ000150\_18.0124.C81.o1.tw  
 Start 2109

Seq. ID OJ000150\_18.0124.C81  
 Strand -  
 End 4620  
 Method TBLASTX:Wheat  
 End 2635

GI	none	Score	76
Exons	2109..2186, 2121..2186, 2326..2634, 2327..2635, 2459..2635		
Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57365	Strand	-
Start	3203	End	4620
Name	OJ000150_18.0124.C81.o3.tw	Method	TBLASTX:Wheat
Start	2660	End	2932
GI	none	Score	293
Exons	2660..2932, 2663..2932		
Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57365	Strand	-
Start	3203	End	4620
Name	OJ000150_18.0124.C81.o2.gs	Method	GENSCAN
Start	3203	End	4376
GI	none	Score	.62
Exons	3203..3256, 4002..4175, 4260..4376		
Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57365	Strand	-
Start	3203	End	4620
Name	OJ000150_18.0124.C81.o2.gp	Method	AAT/GAP
Start	3546	End	3921
GI	none	Score	708
Exons	3546..3921		
Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57365	Strand	-
Start	3203	End	4620
Name	OJ000150_18.0124.C81.o2.tc	Method	TBLASTX:Cress
Start	3794	End	4169
GI	none	Score	68
Exons	3794..3907, 3814..3906, 3825..3920, 3999..4169, 3999..4169		
Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57365	Strand	-
Start	3203	End	4620
Name	OJ000150_18.0124.C81.o2.ts	Method	TBLASTX:Soybean
Start	3805	End	4410
GI	none	Score	77
Exons	3805..3906, 3824..3907, 3825..3920, 3999..4178, 4000..4176, 4254..4400, 4260..4409, 4279..4410		
Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57365	Strand	-
Start	3203	End	4620
Name	OJ000150_18.0124.C81.o2.np	Method	AAT/NAP
Start	3827	End	4620
GI	5902382	Score	285
Exons	3827..3910, 4002..4175, 4260..4620		
GI Descrip.	(AC009322) Unknown protein [Arabidopsis thaliana]		
Seq. No.	27784	Seq. ID	OJ000150_18.0124.C81
Gene No.	57365	Strand	-
Start	3203	End	4620
Name	OJ000150_18.0124.C81.o2.tw	Method	TBLASTX:Wheat

Start	3999	End	4460
GI	none	Score	61
Exons	3999..4046, 4003..4044, 4083..4178, 4085..4177, 4086..4178, 4096..4185, 4240..4449, 4254..4460, 4260..4448		

Seq. No.	27785	Seq. ID	OJ000150_18.0124.C83
Gene No.	57366	Strand	-
Start	435	End	1035
Name	OJ000150_18.0124.C83.o1.np	Method	AAT/NAP
Start	435	End	1035
GI	5915839	Score	570
Exons	435..1035		
GI Descrip.	CYTOCHROME P450 71D10 gi 2739000 gb AAB94588  (AF022459) CYP71D10p [Glycine max]		

Seq. No.	27785	Seq. ID	OJ000150_18.0124.C83
Gene No.	57366	Strand	-
Start	435	End	1035
Name	OJ000150_18.0124.C83.o1.ts	Method	TBLASTX:Soybean
Start	435	End	1034
GI	none	Score	214
Exons	435..743, 436..744, 741..1034, 743..1030		

Seq. No.	27785	Seq. ID	OJ000150_18.0124.C83
Gene No.	57366	Strand	-
Start	435	End	1035
Name	OJ000150_18.0124.C83.o2.tw	Method	TBLASTX:Wheat
Start	438	End	720
GI	none	Score	106
Exons	438..563, 438..707, 442..720		

Seq. No.	27785	Seq. ID	OJ000150_18.0124.C83
Gene No.	57366	Strand	-
Start	435	End	1035
Name	OJ000150_18.0124.C83.o1.tc	Method	TBLASTX:Cress
Start	444	End	1034
GI	none	Score	93
Exons	444..743, 501..743, 607..744, 741..1034, 743..1033		

Seq. No.	27785	Seq. ID	OJ000150_18.0124.C83
Gene No.	57366	Strand	-
Start	435	End	1035
Name	OJ000150_18.0124.C83.o1.tm	Method	TBLASTX:Maize
Start	580	End	1025
GI	none	Score	153
Exons	580..744, 582..743, 731..850, 741..1025, 743..1024		

Seq. No.	27785	Seq. ID	OJ000150_18.0124.C83
Gene No.	57366	Strand	-
Start	435	End	1035
Name	OJ000150_18.0124.C83.o1.tw	Method	TBLASTX:Wheat
Start	741	End	1035
GI	none	Score	289
Exons	741..1028, 743..1027, 744..1028, 787..1035		

Seq. No.	27786	Seq. ID	OJ000150_18.0124.C88
Gene No.	57367	Strand	-

Start 585  
 Name OJ000150\_18.0124.C88.ol.gs  
 Start 585  
 GI none  
 Exons 585..612

End 612  
 Method GENSCAN  
 End 612  
 Score .69

Seq. No. 27787  
 Gene No. 57368  
 Start 378  
 Name OJ000150\_18.0124.C93.ol.gs  
 Start 378  
 GI none  
 Exons 378..493

Seq. ID OJ000150\_18.0124.C93  
 Strand -  
 End 493  
 Method GENSCAN  
 End 493  
 Score .61

Seq. No. 27788  
 Gene No. 57369  
 Start 450  
 Name OJ000150\_18.0124.C94.ol.gs  
 Start 450  
 GI none  
 Exons 450..710

Seq. ID OJ000150\_18.0124.C94  
 Strand +  
 End 710  
 Method GENSCAN  
 End 710  
 Score .92

Seq. No. 27789  
 Gene No. 57370  
 Start 1  
 Name OJ000150\_18.0124.C96.ol.gp  
 Start 1  
 GI 70315 1.R1084  
 Exons 1..187

Seq. ID OJ000150\_18.0124.C96  
 Strand +  
 End 187  
 Method AAT/GAP  
 End 187  
 Score 326

GI Descrip. '5091508/dbj|BAA78743.1| 2.0e-55 (AB023482) ESTs  
 C22458(C62866),C22459(C62866) correspond to a region of the  
 predicted gene.; Similar to genomic sequence of Arabidopsis  
 thaliana BAC F8A5, complete sequence.(AC002292) [Oryza sativa]'

Seq. No. 27789  
 Gene No. 57371  
 Start 1  
 Name OJ000150\_18.0124.C96.ol.np  
 Start 1  
 GI 5903051  
 Exons 1..182, 578..616

Seq. ID OJ000150\_18.0124.C96  
 Strand -  
 End 616  
 Method AAT/NAP  
 End 616  
 Score 207

GI Descrip. (AC008016) Contains PF|00069 Eukaryotic protein kinase domain.  
 ESTs gb|W43822, gb|T20475 and gb|AA586152 come from this gene.  
 [Arabidopsis thaliana]

Seq. No. 27789  
 Gene No. 57371  
 Start 1  
 Name OJ000150\_18.0124.C96.ol.tm  
 Start 3  
 GI none  
 Exons 3..182, 5..181

Seq. ID OJ000150\_18.0124.C96  
 Strand -  
 End 616  
 Method TBLASTX:Maize  
 End 182  
 Score 197

Seq. No. 27789  
 Gene No. 57371  
 Start 1  
 Name OJ000150\_18.0124.C96.ol.tc

Seq. ID OJ000150\_18.0124.C96  
 Strand -  
 End 616  
 Method TBLASTX:Cress



Start 22  
GI none  
Exons 22..93, 23..181, 36..182

End 182  
Score 53

Seq. No. 27789  
Gene No. 57371  
Start 1  
Name OJ000150\_18.0124.C96.ol.ts  
Start 59  
GI none  
Exons 59..181, 60..182, 62..190

Seq. ID OJ000150\_18.0124.C96  
Strand -  
End 616  
Method TBLASTX:Soybean  
End 190  
Score 109

Seq. No. 27790  
Gene No. 57372  
Start 25  
Name OJ000150\_18.0124.C97.ol.gs  
Start 25  
GI none  
Exons 25..107

Seq. ID OJ000150\_18.0124.C97  
Strand -  
End 107  
Method GENSCAN  
End 107  
Score .48

Seq. No. 27791  
Gene No. 57373  
Start 278  
Name OJ000150\_18.0124.C99.ol.gs  
Start 278  
GI none  
Exons 278..373, 449..568

Seq. ID OJ000150\_18.0124.C99  
Strand +  
End 568  
Method GENSCAN  
End 568  
Score .81

Seq. No. 27792  
Gene No. 57374  
Start 185  
Name OJ000150\_18.0124.C101.ol.gp  
Start 128  
GI none  
Exons 128..318

Seq. ID OJ000150\_18.0124.C101  
Strand +  
End 318  
Method AAT/GAP  
End 318  
Score 378

Seq. No. 27792  
Gene No. 57374  
Start 185  
Name OJ000150\_18.0124.C101.ol.gs  
Start 185  
GI none  
Exons 185..279

Seq. ID OJ000150\_18.0124.C101  
Strand +  
End 318  
Method GENSCAN  
End 279  
Score 1

Seq. No. 27793  
Gene No. 57375  
Start 92  
Name OJ000150\_07.0124.C2.ol.gs  
Start 92  
GI none  
Exons 92..478

Seq. ID OJ000150\_07.0124.C2  
Strand -  
End 478  
Method GENSCAN  
End 478  
Score .66

Seq. No. 27793  
Gene No. 57376  
Start 383  
Name OJ000150\_07.0124.C2.ol.np  
Start 383

Seq. ID OJ000150\_07.0124.C2  
Strand -  
End 549  
Method AAT/NAP  
End 549

GI 4335736 Score 83  
 Exons 383..549  
 GI Descrip. (AC006248) copia-like retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No. 27794 Seq. ID OJ000150\_07.0124.C4  
 Gene No. 57377 Strand +  
 Start 248 End 612  
 Name OJ000150\_07.0124.C4.o1.gp Method AAT/GAP  
 Start 248 End 612  
 GI uC-osflcyp033a04b1 Score 562  
 Exons 248..612  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 27794 Seq. ID OJ000150\_07.0124.C4  
 Gene No. 57378 Strand -  
 Start 1 End 619  
 Name OJ000150\_07.0124.C4.o2.np Method AAT/NAP  
 Start 1 End 619  
 GI 5852180 Score 46  
 Exons 1..53, 461..531, 584..619  
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 27794 Seq. ID OJ000150\_07.0124.C4  
 Gene No. 57378 Strand -  
 Start 1 End 619  
 Name OJ000150\_07.0124.C4.o1.np Method AAT/NAP  
 Start 203 End 619  
 GI 4680186 Score 194  
 Exons 203..389, 516..619  
 GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 27795 Seq. ID OJ000150\_07.0124.C5  
 Gene No. 57379 Strand +  
 Start 1 End 1147  
 Name OJ000150\_07.0124.C5.o1.np Method AAT/NAP  
 Start 1 End 1147  
 GI 4680186 Score 205  
 Exons 1..29, 946..1147  
 GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 27796 Seq. ID OJ000150\_07.0124.C6  
 Gene No. 57380 Strand +  
 Start 1 End 575  
 Name OJ000150\_07.0124.C6.o1.np Method AAT/NAP  
 Start 1 End 575  
 GI 130582 Score 261  
 Exons 1..575  
 GI Descrip. RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi|100342|pir||S04273 hypothetical protein - common tobacco gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]

Seq. No. 27796 Seq. ID OJ000150\_07.0124.C6  
 Gene No. 57380 Strand +  
 Start 1 End 575

Name	OJ000150_07.0124.C6.o1.tw	Method	TBLASTX:Wheat
Start	208	End	511
GI	none	Score	105
Exons	208..354, 209..355, 228..356, 341..451, 383..439, 440..511		

Seq. No.	27797	Seq. ID	OJ000150_07.0124.C8
Gene No.	57381	Strand	-
Start	1	End	748
Name	OJ000150_07.0124.C8.o1.np	Method	AAT/NAP
Start	1	End	748
GI	5257279	Score	1049
Exons	1..748		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	27797	Seq. ID	OJ000150_07.0124.C8
Gene No.	57381	Strand	-
Start	1	End	748
Name	OJ000150_07.0124.C8.o2.tw	Method	TBLASTX:Wheat
Start	7	End	167
GI	none	Score	113
Exons	7..150, 7..126, 15..167, 27..167		

Seq. No.	27797	Seq. ID	OJ000150_07.0124.C8
Gene No.	57381	Strand	-
Start	1	End	748
Name	OJ000150_07.0124.C8.o1.gs	Method	GENSCAN
Start	20	End	728
GI	none	Score	.8
Exons	20..728		

Seq. No.	27797	Seq. ID	OJ000150_07.0124.C8
Gene No.	57381	Strand	-
Start	1	End	748
Name	OJ000150_07.0124.C8.o1.ts	Method	TBLASTX:Soybean
Start	21	End	275
GI	none	Score	131
Exons	21..239, 22..258, 243..275		

Seq. No.	27797	Seq. ID	OJ000150_07.0124.C8
Gene No.	57381	Strand	-
Start	1	End	748
Name	OJ000150_07.0124.C8.o1.tm	Method	TBLASTX:Maize
Start	162	End	629
GI	none	Score	130
Exons	162..629, 199..558		

Seq. No.	27797	Seq. ID	OJ000150_07.0124.C8
Gene No.	57381	Strand	-
Start	1	End	748
Name	OJ000150_07.0124.C8.o1.tw	Method	TBLASTX:Wheat
Start	216	End	698
GI	none	Score	160
Exons	216..698, 225..671, 244..690		

Seq. No.	27798	Seq. ID	OJ000150_07.0124.C9
Gene No.	57382	Strand	-

Start 418  
 Name OJ000150\_07.0124.C9.ol.gs  
 Start 418  
 GI none  
 Exons 418..525, 664..762

End 762  
 Method GENSCAN  
 End 762  
 Score .47

Seq. No. 27799  
 Gene No. 57383  
 Start 1  
 Name OJ000150\_07.0124.C11.ol.np  
 Start 1  
 GI 2997694  
 Exons 1..554  
 GI Descrip. (AF053721) putative retrovirus-related polyprotein [Lithospermum erythrorhizon]

Seq. ID OJ000150\_07.0124.C11  
 Strand +  
 End 554  
 Method AAT/NAP  
 End 554  
 Score 428

Seq. No. 27799  
 Gene No. 57383  
 Start 1  
 Name OJ000150\_07.0124.C11.ol.tw  
 Start 259  
 GI none  
 Exons 259..486, 260..529

Seq. ID OJ000150\_07.0124.C11  
 Strand +  
 End 554  
 Method TBLASTX:Wheat  
 End 529  
 Score 187

Seq. No. 27800  
 Gene No. 57384  
 Start 1  
 Name OJ000150\_07.0124.C14.ol.np  
 Start 1  
 GI 6907086  
 Exons 1..127, 242..354, 585..760, 823..1584  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. ID OJ000150\_07.0124.C14  
 Strand -  
 End 1584  
 Method AAT/NAP  
 End 1584  
 Score 1133

Seq. No. 27801  
 Gene No. 57385  
 Start 435  
 Name OJ000150\_07.0124.C15.ol.gs  
 Start 435  
 GI none  
 Exons 435..669

Seq. ID OJ000150\_07.0124.C15  
 Strand +  
 End 669  
 Method GENSCAN  
 End 669  
 Score .97

Seq. No. 27802  
 Gene No. 57386  
 Start 1  
 Name OJ000150\_07.0124.C16.ol.np  
 Start 1  
 GI 6907088  
 Exons 1..26, 94..333, 511..648  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. ID OJ000150\_07.0124.C16  
 Strand -  
 End 648  
 Method AAT/NAP  
 End 648  
 Score 517

Seq. No. 27803  
 Gene No. 57387  
 Start 137  
 Name OJ000150\_07.0124.C17.ol.gs  
 Start 137  
 GI none  
 Exons 137..256, 354..368

Seq. ID OJ000150\_07.0124.C17  
 Strand -  
 End 368  
 Method GENSCAN  
 End 368  
 Score .84

Seq. No.	27804	Seq. ID	OJ000150_07.0124.C18
Gene No.	57388	Strand	+
Start	1	End	142
Name	OJ000150_07.0124.C18.o1.gp	Method	AAT/GAP
Start	1	End	142
GI	15595_1.R1084	Score	241
Exons	1..142		
GI Descrip.	'1420887 1.0e-08 (U34334) non-specific lipid transfer-like protein [Phaseolus vulgaris]'		

Seq. No.	27804	Seq. ID	OJ000150_07.0124.C18
Gene No.	57389	Strand	+
Start	67	End	264
Name	OJ000150_07.0124.C18.o2.gp	Method	AAT/GAP
Start	67	End	264
GI	none	Score	373
Exons	67..264		

Seq. No.	27805	Seq. ID	OJ000150_07.0124.C21
Gene No.	57390	Strand	+
Start	242	End	692
Name	OJ000150_07.0124.C21.o1.gs	Method	GENSCAN
Start	242	End	692
GI	none	Score	.76
Exons	242..692		

Seq. No.	27806	Seq. ID	OJ000150_07.0124.C22
Gene No.	57391	Strand	-
Start	1	End	576
Name	OJ000150_07.0124.C22.o1.np	Method	AAT/NAP
Start	1	End	533
GI	5091513	Score	593
Exons	1..533		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	27806	Seq. ID	OJ000150_07.0124.C22
Gene No.	57391	Strand	-
Start	1	End	576
Name	OJ000150_07.0124.C22.o1.gs	Method	GENSCAN
Start	19	End	576
GI	none	Score	.66
Exons	19..576		

Seq. No.	27807	Seq. ID	OJ000150_07.0124.C23
Gene No.	57392	Strand	+
Start	10	End	547
Name	OJ000150_07.0124.C23.o1.gs	Method	GENSCAN
Start	10	End	547
GI	none	Score	.85
Exons	10..109, 504..547		

Seq. No.	27807	Seq. ID	OJ000150_07.0124.C23
Gene No.	57393	Strand	-
Start	135	End	440
Name	OJ000150_07.0124.C23.o1.gp	Method	AAT/GAP
Start	135	End	440

GI 72524\_1.R1084 Score 415  
 Exons 135..440  
 GI Descrip. '5091496/dbj|AB023482.2|AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'

Seq. No. 27808 Seq. ID OJ000150\_07.0124.C26  
 Gene No. 57394 Strand -  
 Start 1 End 520  
 Name OJ000150\_07.0124.C26.o1.np Method AAT/NAP  
 Start 1 End 520  
 GI 5091513 Score 143  
 Exons 1..322, 463..520  
 GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. No. 27809 Seq. ID OJ000150\_07.0124.C27  
 Gene No. 57395 Strand +  
 Start 96 End 445  
 Name OJ000150\_07.0124.C27.o1.gs Method GENSCAN  
 Start 96 End 445  
 GI none Score .69  
 Exons 96..445

Seq. No. 27810 Seq. ID OJ000150\_07.0124.C28  
 Gene No. 57396 Strand -  
 Start 1 End 629  
 Name OJ000150\_07.0124.C28.o1.np Method AAT/NAP  
 Start 1 End 606  
 GI 4680179 Score 358  
 Exons 1..606  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 27810 Seq. ID OJ000150\_07.0124.C28  
 Gene No. 57396 Strand -  
 Start 1 End 629  
 Name OJ000150\_07.0124.C28.o1.gs Method GENSCAN  
 Start 8 End 629  
 GI none Score .4  
 Exons 8..629

Seq. No. 27810 Seq. ID OJ000150\_07.0124.C28  
 Gene No. 57396 Strand -  
 Start 1 End 629  
 Name OJ000150\_07.0124.C28.o1.tw Method TBLASTX:Wheat  
 Start 10 End 387  
 GI none Score 264  
 Exons 10..387

Seq. No. 27811 Seq. ID OJ000150\_07.0124.C29  
 Gene No. 57397 Strand -  
 Start 1 End 782  
 Name OJ000150\_07.0124.C29.o1.np Method AAT/NAP  
 Start 1 End 782  
 GI 6539558 Score 427  
 Exons 1..399, 436..782  
 GI Descrip. (AP000836) Similar to putative polyprotein (AC006248) [Oryza sativa]

Seq. No.	27811	Seq. ID	OJ000150_07.0124.C29
Gene No.	57397	Strand	-
Start	1	End	782
Name	OJ000150_07.0124.C29.ol.tw	Method	TBLASTX:Wheat
Start	1	End	295
GI	none	Score	185
Exons	1..294, 29..295		
Seq. No.	27811	Seq. ID	OJ000150_07.0124.C29
Gene No.	57397	Strand	-
Start	1	End	782
Name	OJ000150_07.0124.C29.ol.gs	Method	GENSCAN
Start	92	End	723
GI	none	Score	.41
Exons	92..723		
Seq. No.	27811	Seq. ID	OJ000150_07.0124.C29
Gene No.	57397	Strand	-
Start	1	End	782
Name	OJ000150_07.0124.C29.ol.tm	Method	TBLASTX:Maize
Start	97	End	316
GI	none	Score	157
Exons	97..315, 98..316		
Seq. No.	27812	Seq. ID	OJ000150_07.0124.C30
Gene No.	57398	Strand	+
Start	117	End	1008
Name	OJ000150_07.0124.C30.ol.gs	Method	GENSCAN
Start	117	End	1008
GI	none	Score	.49
Exons	117..241, 291..373, 938..1008		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57399	Strand	+
Start	1	End	4382
Name	OJ000150_07.0124.C31.ol.np	Method	AAT/NAP
Start	1	End	3612
GI	4325324	Score	1404
Exons	1..366, 446..558, 1149..1274, 1359..1641, 1889..1985, 2091..2247, 2585..2728, 2810..2878, 3291..3434, 3533..3612		
GI Descrip.	(AF125574) lysyl-tRNA synthetase; LysRS [Arabidopsis thaliana] gi 6041823 gb AAF02138.1 AC009918_10 (AC009918) lysyl-tRNA synthetase [Arabidopsis thaliana]		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57399	Strand	+
Start	1	End	4382
Name	OJ000150_07.0124.C31.ol.gs	Method	GENSCAN
Start	478	End	3440
GI	none	Score	.87
Exons	478..558, 1149..1274, 1359..1641, 1889..1985, 2091..2247, 2585..2728, 2810..2878, 3291..3440		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57399	Strand	+
Start	1	End	4382
Name	OJ000150_07.0124.C31.ol.gp	Method	AAT/GAP

Start 1174 End 2149  
 GI LIB3477-004-P1-K1-F7 Score 1012  
 Exons 1174..1274, 1359..1641, 1889..1985, 2091..2149  
 GI Descrip. '4325324/gb|AAD17333| 9.0e-85 (AF125574) lysyl-tRNA synthetase;  
 LysRS [Arabidopsis thaliana]  
 >gi\_6041823\_gb\_AAF02138.1\_AC009918\_10 (AC009918) lysyl-tRNA  
 synthetase [Arabidopsis thaliana]'

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57399 Strand +  
 Start 1 End 4382  
 Name OJ000150\_07.0124.C31.o2.gp Method AAT/GAP  
 Start 2614 End 4382  
 GI 62345\_1.R1084 Score 1046  
 Exons 2614..2728, 2810..2878, 3291..3434, 3533..3603, 4211..4382  
 GI Descrip. '4325324/gb|AAD17333| 4.0e-59 (AF125574) lysyl-tRNA synthetase;  
 LysRS [Arabidopsis thaliana]  
 >gi\_6041823\_gb\_AAF02138.1\_AC009918\_10 (AC009918) lysyl-tRNA  
 synthetase [Arabidopsis thaliana]'

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57400 Strand +  
 Start 9065 End 23798  
 Name OJ000150\_07.0124.C31.o3.gs Method GENSCAN  
 Start 9065 End 23798  
 GI none Score .8  
 Exons 9065..9224, 9486..9627, 9692..9957, 9975..10144, 10869..11000,  
 11985..12055, 12143..12242, 12319..12417, 12646..12772,  
 13028..13161, 13242..13301, 13388..13623, 15563..15992,  
 16425..16748, 16853..17458, 17546..17719, 19692..19919,  
 19984..20122, 20389..20632, 20786..20908, 23705..23798

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57400 Strand +  
 Start 9065 End 23798  
 Name OJ000150\_07.0124.C31.o2.np Method AAT/NAP  
 Start 9995 End 21848  
 GI 6899899 Score 3910  
 Exons 9995..10144, 10869..11000, 11484..11555, 11985..12055,  
 12143..12242, 12319..12417, 12646..12776, 13026..13161,  
 13242..13301, 13388..13623, 15563..15992, 16425..16748,  
 16853..17458, 17546..17719, 19692..19919, 19984..20267,  
 20354..20632, 20786..20933, 21810..21848  
 GI Descrip. (AL138642) putative protein [Arabidopsis thaliana]

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57400 Strand +  
 Start 9065 End 23798  
 Name OJ000150\_07.0124.C31.o3.gp Method AAT/GAP  
 Start 17361 End 19780  
 GI 427903 Score 615  
 Exons 17361..17458, 17546..17719, 19692..19780

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57401 Strand +  
 Start 28544 End 32257  
 Name OJ000150\_07.0124.C31.o4.gp Method AAT/GAP



Start 28544 End 32257  
 GI 15074\_1.R1084 Score 1227  
 Exons 28544..28665, 29971..30004, 30082..30251, 30345..30396,  
 31757..31824, 31906..32165, 32223..32257  
 GI Descrip. '4960150/gb|AAD34613.1|AF153277\_1 1.0e-46 (AF153277)  
 DNA-directed RNA polymerase IIa [Nicotiana tabacum]  
 >gi\_4960152\_gb\_AAD34614.1\_AF153278\_1 (AF153278) DNA-directed RNA  
 polymerase IIb [Nicotiana tabacum]'

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57401 Strand +  
 Start 28544 End 32257  
 Name OJ000150\_07.0124.C31.o3.np Method AAT/NAP  
 Start 28634 End 31972  
 GI 4960150 Score 418  
 Exons 28634..28665, 29971..30004, 30082..30251, 30345..30396,  
 31757..31824, 31906..31972  
 GI Descrip. (AF153277) DNA-directed RNA polymerase IIa [Nicotiana tabacum]  
 gi|4960152|gb|AAD34614.1|AF153278\_1 (AF153278) DNA-directed RNA  
 polymerase IIb [Nicotiana tabacum]

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57401 Strand +  
 Start 28544 End 32257  
 Name OJ000150\_07.0124.C31.o5.gs Method GENSCAN  
 Start 29947 End 31975  
 GI none Score .91  
 Exons 29947..29970, 30082..30251, 30345..30396, 31757..31824,  
 31906..31975

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57402 Strand +  
 Start 35204 End 55481  
 Name OJ000150\_07.0124.C31.o7.gs Method GENSCAN  
 Start 35204 End 55481  
 GI none Score .59  
 Exons 35204..35211, 35783..36198, 36210..36470, 36570..36637,  
 36722..36797, 41000..41151, 41279..41804, 42364..42620,  
 42871..43006, 43360..43454, 45091..45189, 45292..45411,  
 46013..46099, 46176..46346, 48276..48433, 49110..49379,  
 49446..49497, 49524..49616, 49723..49785, 49854..50074,  
 50079..50212, 50253..50371, 50431..50597, 52896..52953,  
 53523..53579, 53716..53909, 54569..54624, 54792..54975,  
 55265..55481

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57402 Strand +  
 Start 35204 End 55481  
 Name OJ000150\_07.0124.C31.o6.gp Method AAT/GAP  
 Start 37377 End 38711  
 GI 13768\_1.R1084 Score 902  
 Exons 37377..37469, 38284..38711  
 GI Descrip. '6015437/dbj|AB008112.1|AB008112 1.0e-11 Homo sapiens PEX1 mRNA,  
 complete cds'

Seq. No. 27813 Seq. ID OJ000150\_07.0124.C31  
 Gene No. 57402 Strand +

Start	35204	End	55481
Name	OJ000150_07.0124.C31.o4.np	Method	AAT/NAP
Start	41333	End	46340
GI	4263792	Score	1534
Exons	41333..41804, 42385..42566, 42871..43010, 43491..43615, 44134..44247, 45042..45189, 45292..45411, 46013..46099, 46176..46340		

GI Descrip. (AC006068) unknown protein [Arabidopsis thaliana]

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57402	Strand	+
Start	35204	End	55481
Name	OJ000150_07.0124.C31.o7.gp	Method	AAT/GAP
Start	45089	End	45200
GI	LIB3477-002-P1-K1-H11	Score	181
Exons	45089..45200		
GI Descrip.	'3608127 3.0e-28 (AC005314) unknown protein [Arabidopsis thaliana]'		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57403	Strand	+
Start	59068	End	65531
Name	OJ000150_07.0124.C31.o9.gs	Method	GENSCAN
Start	59068	End	62366
GI	none	Score	.54
Exons	59068..59116, 59708..59909, 60327..60371, 60449..60545, 60696..60810, 61426..61595, 61663..61828, 61951..62366		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57403	Strand	+
Start	59068	End	65531
Name	OJ000150_07.0124.C31.o5.np	Method	AAT/NAP
Start	59755	End	65531
GI	6815052	Score	1924
Exons	59755..59909, 59991..60065, 60327..60444, 60745..60843, 63210..63302, 64083..64218, 64267..64998, 65080..65154, 65416..65531		

GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57404	Strand	-
Start	6941	End	8380
Name	OJ000150_07.0124.C31.o2.gs	Method	GENSCAN
Start	6941	End	8380
GI	none	Score	.71
Exons	6941..7142, 7200..7256, 8304..8380		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57405	Strand	-
Start	27879	End	28862
Name	OJ000150_07.0124.C31.o4.gs	Method	GENSCAN
Start	27879	End	28862
GI	none	Score	.89
Exons	27879..28286, 28450..28590, 28782..28862		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57406	Strand	-

Start	32777	End	34757
Name	OJ000150_07.0124.C31.o5.gp	Method	AAT/GAP
Start	32515	End	34757
GI	none	Score	2073
Exons	32515..32896, 32979..33086, 33295..33407, 33651..33764, 33888..33966, 34338..34422, 34512..34757		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57406	Strand	-
Start	32777	End	34757
Name	OJ000150_07.0124.C31.o6.gs	Method	GENSCAN
Start	32777	End	34708
GI	none	Score	.81
Exons	32777..32896, 32979..33086, 33295..33407, 33735..33764, 33888..33966, 34338..34422, 34512..34708		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57407	Strand	-
Start	55948	End	57647
Name	OJ000150_07.0124.C31.o8.gs	Method	GENSCAN
Start	55948	End	57647
GI	none	Score	.65
Exons	55948..56021, 56650..57005, 57377..57464, 57548..57647		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o1.tm	Method	TBLASTX:Maize
Start	465	End	3575
GI	none	Score	133
Exons	465..560, 475..558, 1131..1277, 1134..1277, 1147..1278, 1334..1462, 1350..1634, 1352..1639, 1359..1643, 1523..1642, 1881..1985, 1881..1991, 1882..1986, 2080..2253, 2080..2253, 2562..2675, 2573..2731, 2573..2731, 2584..2736, 2809..2880, 2810..2878, 3287..3436, 3288..3434, 3289..3447, 3289..3441, 3524..3571, 3527..3571, 3531..3575		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o1.tc	Method	TBLASTX:Cress
Start	1125	End	3561
GI	none	Score	161
Exons	1125..1277, 1134..1232, 1187..1276, 1334..1462, 1350..1634, 1359..1643, 1523..1642, 1881..1985, 1881..1991, 1882..1986, 2076..2147, 2080..2253, 2148..2252, 2169..2255, 2572..2730, 2573..2731, 2810..2878, 3288..3446, 3288..3434, 3290..3436, 3532..3561		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o1.ts	Method	TBLASTX:Soybean
Start	1218	End	2830
GI	none	Score	82
Exons	1218..1277, 1334..1642, 1358..1642, 1359..1643, 1881..1913, 1882..1914, 1899..2018, 1909..1986, 2040..2252, 2080..2253,		

2080..2253, 2570..2725, 2573..2731, 2584..2730, 2590..2745,  
2810..2830

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o2.tw	Method	TBLASTX:Wheat
Start	1407	End	1991
GI	none	Score	377
Exons	1407..1643, 1410..1643, 1882..1986, 1882..1977, 1887..1991		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o6.ts	Method	TBLASTX:Soybean
Start	2831	End	3586
GI	none	Score	75
Exons	2831..2878, 3288..3434, 3289..3435, 3290..3436, 3290..3436, 3527..3586, 3532..3567		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o3.ts	Method	TBLASTX:Soybean
Start	11483	End	20244
GI	none	Score	89
Exons	11483..11548, 11487..11546, 11985..12059, 12141..12245, 12343..12411, 16410..16691, 16410..16688, 16424..16690, 19981..20067, 20083..20244		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o1.tw	Method	TBLASTX:Wheat
Start	11487	End	20262
GI	none	Score	64
Exons	11487..11552, 11985..12065, 12343..12417, 15900..15968, 16416..16535, 16527..16601, 19776..19934, 19788..19922, 19972..20169, 19990..20157, 20094..20168, 20146..20253, 20175..20258, 20176..20262, 20177..20260		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o2.tc	Method	TBLASTX:Cress
Start	11487	End	20909
GI	none	Score	69
Exons	11487..11552, 15900..15968, 16416..16526, 16527..16694, 19737..19772, 19770..19934, 19812..19922, 19984..20268, 19987..20244, 20184..20267, 20355..20477, 20366..20434, 20525..20617, 20535..20630, 20786..20908, 20787..20909		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o7.tc	Method	TBLASTX:Cress
Start	12327	End	12774

GI	none	Score	120
Exons	12327..12473, 12334..12417, 12643..12774		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o9.tm	Method	TBLASTX:Maize
Start	12372	End	16751
GI	none	Score	80
Exons	12372..12419, 12373..12417, 12625..12813, 12645..12782, 12646..12786, 16650..16751		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o2.ts	Method	TBLASTX:Soybean
Start	13451	End	19934
GI	none	Score	63
Exons	13451..13531, 13565..13615, 15762..15854, 15888..15968, 17225..17455, 17254..17454, 17545..17742, 17546..17722, 19653..19772, 19691..19777, 19785..19934, 19794..19904		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o5.tm	Method	TBLASTX:Maize
Start	15771	End	19919
GI	none	Score	71
Exons	15771..15869, 15900..15968, 17597..17722, 17599..17724, 17600..17722, 19689..19778, 19690..19800, 19691..19777, 19776..19919, 19782..19919		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o2.tm	Method	TBLASTX:Maize
Start	17102	End	20909
GI	none	Score	76
Exons	17102..17218, 20355..20633, 20357..20635, 20357..20638, 20358..20672, 20783..20836, 20784..20867, 20784..20843, 20856..20909, 20860..20907, 20879..20908		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o11.ts	Method	TBLASTX:Soybean
Start	20562	End	21942
GI	none	Score	90
Exons	20562..20633, 20567..20638, 20783..20908, 20784..20927, 21804..21941, 21808..21942		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o6.tm	Method	TBLASTX:Maize
Start	29969	End	30399
GI	none	Score	63

Exons 29969..30007, 29972..30004, 30080..30235, 30080..30250,  
30130..30249, 30165..30251, 30334..30396, 30343..30399

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o4.tw	Method	TBLASTX:Wheat
Start	30079	End	31951
GI	none	Score	170
Exons	30079..30138, 30080..30250, 30130..30249, 30165..30251, 30334..30396, 30343..30399, 31754..31822, 31756..31824, 31757..31822, 31904..31951, 31904..31951		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o10.ts	Method	TBLASTX:Soybean
Start	30148	End	31969
GI	none	Score	136
Exons	30148..30249, 30174..30251, 30325..30396, 30343..30399, 31756..31824, 31757..31822, 31904..31969, 31904..31951		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o6.tc	Method	TBLASTX:Cress
Start	30157	End	31969
GI	none	Score	134
Exons	30157..30249, 30174..30251, 30343..30399, 30344..30394, 31756..31830, 31757..31822, 31904..31969, 31910..31954		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o3.tm	Method	TBLASTX:Maize
Start	31756	End	34709
GI	none	Score	112
Exons	31756..31824, 31757..31822, 31904..31969, 31906..31974, 31907..31954, 31945..31968, 32777..32896, 32778..32897, 32786..32893, 32802..32897, 32917..33093, 32977..33087, 32979..33089, 33294..33377, 33295..33381, 33295..33408, 33344..33409, 33608..33766, 33628..33765, 33637..33774, 33886..33966, 33887..33967, 33905..33973, 34341..34418, 34342..34419, 34342..34419, 34355..34420, 34361..34423, 34599..34676, 34613..34675, 34661..34708, 34662..34709		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o8.ts	Method	TBLASTX:Soybean
Start	32786	End	34416
GI	none	Score	95
Exons	32786..32896, 32799..32897, 33000..33083, 33001..33084, 33295..33408, 33344..33409, 33628..33765, 33629..33766, 33886..33966, 33887..33967, 34338..34415, 34342..34416		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
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Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o4.ts	Method	TBLASTX:Soybean
Start	41597	End	42410
GI	none	Score	313
Exons	41597..41803, 41600..41803, 42363..42410		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o7.tm	Method	TBLASTX:Maize
Start	42447	End	42970
GI	none	Score	127
Exons	42447..42539, 42448..42552, 42451..42528, 42523..42621, 42531..42620, 42835..42969, 42894..42968, 42896..42970		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o5.tc	Method	TBLASTX:Cress
Start	42903	End	45186
GI	none	Score	171
Exons	42903..43007, 42904..43017, 43344..43457, 43358..43453, 43544..43618, 44132..44248, 44133..44255, 44134..44250, 45072..45173, 45076..45186		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o8.tm	Method	TBLASTX:Maize
Start	43547	End	45369
GI	none	Score	98
Exons	43547..43618, 43561..43620, 44126..44248, 44133..44249, 44133..44249, 44134..44250, 45072..45197, 45076..45198, 45202..45237, 45289..45366, 45295..45369		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o9.ts	Method	TBLASTX:Soybean
Start	44133	End	45192
GI	none	Score	95
Exons	44133..44249, 44133..44249, 44134..44250, 44137..44250, 44138..44254, 45076..45192, 45090..45191		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o4.tc	Method	TBLASTX:Cress
Start	46175	End	46339
GI	none	Score	47
Exons	46175..46231, 46181..46234, 46182..46247, 46250..46315, 46250..46339, 46251..46337		
Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344

Name	OJ000150_07.0124.C31.o7.ts	Method	TBLASTX:Soybean
Start	46175..	End	46340
GI	none	Score	111
Exons	46175..46315, 46181..46336, 46182..46340		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o3.tw	Method	TBLASTX:Wheat
Start	63529	End	64028
GI	none	Score	104
Exons	63529..63747, 63756..64028		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o6.np	Method	AAT/NAP
Start	68934	End	70344
GI	4996642	Score	283
Exons	68934..69485, 69557..70008, 70201..70344		
GI Descrip.	(AB028130) Dof zinc finger protein [Oryza sativa]		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o11.gs	Method	GENSCAN
Start	68961	End	70076
GI	none	Score	.99
Exons	68961..70076		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o3.tc	Method	TBLASTX:Cress
Start	69775	End	69935
GI	none	Score	76
Exons	69775..69867, 69786..69935, 69892..69930		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o4.tm	Method	TBLASTX:Maize
Start	69775	End	69936
GI	none	Score	171
Exons	69775..69936, 69786..69935		

Seq. No.	27813	Seq. ID	OJ000150_07.0124.C31
Gene No.	57408	Strand	-
Start	68961	End	70344
Name	OJ000150_07.0124.C31.o5.ts	Method	TBLASTX:Soybean
Start	69775	End	70010
GI	5606389	Score	115
Exons	69775..69867, 69786..70010, 69892..69930		
GI Descrip.	-		

Seq. No.	27814	Seq. ID	OJ000150_07.0124.C32
Gene No.	57409	Strand	-



Start	2854	End	9371
Name	OJ000150_07.0124.C32.o2.gs	Method	GENSCAN
Start	2854	End	9371
GI	none	Score	.55
Exons	2854..3270, 3539..3737, 3892..3939, 4015..4161, 4221..4453, 4773..4938, 4978..5108, 5213..5346, 8654..8748, 9304..9371		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57410	Strand	+
Start	236	End	873
Name	OJ000150_07.0124.C33.o1.gs	Method	GENSCAN
Start	236	End	873
GI	none	Score	.66
Exons	236..771, 813..873		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o2.gs	Method	GENSCAN
Start	1672	End	6777
GI	none	Score	.53
Exons	1672..1836, 3089..3221, 3581..3753, 4068..4273, 5797..6128, 6293..6777		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o1.np	Method	AAT/NAP
Start	2641	End	4574
GI	6539588	Score	264
Exons	2641..2982, 3525..3829, 4548..4574		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o1.ts	Method	TBLASTX:Soybean
Start	5732	End	6417
GI	none	Score	140
Exons	5732..6010, 6029..6205, 6208..6417		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o2.np	Method	AAT/NAP
Start	5759	End	6929
GI	4416302	Score	1217
Exons	5759..6929		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o1.tm	Method	TBLASTX:Maize
Start	5783	End	6435
GI	none	Score	113
Exons	5783..6205, 5795..6001, 5811..6206, 6208..6435, 6221..6427		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o1.tc	Method	TBLASTX:Cress
Start	5825	End	6145
GI	none	Score	73
Exons	5825..5992, 6029..6145		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o2.tw	Method	TBLASTX:Wheat
Start	5825	End	6193
GI	none	Score	76
Exons	5825..6016, 5825..6001, 6029..6193		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o1.tw	Method	TBLASTX:Wheat
Start	6208	End	6612
GI	none	Score	61
Exons	6208..6438, 6299..6499, 6463..6612		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o3.ts	Method	TBLASTX:Soybean
Start	6418	End	6651
GI	none	Score	60
Exons	6418..6651, 6488..6604		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o2.tm	Method	TBLASTX:Maize
Start	6550	End	6927
GI	none	Score	62
Exons	6550..6927, 6553..6663, 6563..6667, 6752..6925		

Seq. No.	27815	Seq. ID	OJ000150_07.0124.C33
Gene No.	57411	Strand	-
Start	1672	End	6929
Name	OJ000150_07.0124.C33.o2.ts	Method	TBLASTX:Soybean
Start	6788	End	6929
GI	5509260	Score	136
Exons	6788..6925, 6793..6927, 6816..6929		
GI Descrip.	-		

Seq. No.	27816	Seq. ID	OJ000150_07.0124.C34
Gene No.	57412	Strand	-
Start	1	End	3713
Name	OJ000150_07.0124.C34.o1.np	Method	AAT/NAP
Start	1	End	1781
GI	3645899	Score	813
Exons	1..201, 238..1781		

GI Descrip. (U68408) 5' end not determined experimentally [Zea mays]

Seq. No.	27816	Seq. ID	OJ000150_07.0124.C34
Gene No.	57412	Strand	-
Start	1	End	3713
Name	OJ000150_07.0124.C34.ol.gs	Method	GENSCAN
Start	179	End	3713
GI	none	Score	.5
Exons	179..358, 398..468, 814..1168, 1254..1621, 1787..2410, 2522..2702, 3108..3713		

Seq. No.	27816	Seq. ID	OJ000150_07.0124.C34
Gene No.	57412	Strand	-
Start	1	End	3713
Name	OJ000150_07.0124.C34.ol.tm	Method	TBLASTX:Maize
Start	494	End	1129
GI	none	Score	211
Exons	494..646, 641..1063, 642..914, 1064..1129		

Seq. No.	27816	Seq. ID	OJ000150_07.0124.C34
Gene No.	57412	Strand	-
Start	1	End	3713
Name	OJ000150_07.0124.C34.ol.ts	Method	TBLASTX:Soybean
Start	494	End	955
GI	none	Score	128
Exons	494..622, 644..955, 651..935		

Seq. No.	27816	Seq. ID	OJ000150_07.0124.C34
Gene No.	57412	Strand	-
Start	1	End	3713
Name	OJ000150_07.0124.C34.ol.tc	Method	TBLASTX:Cress
Start	495	End	976
GI	none	Score	61
Exons	495..632, 500..631, 647..937, 764..859, 852..929, 947..976		

Seq. No.	27816	Seq. ID	OJ000150_07.0124.C34
Gene No.	57412	Strand	-
Start	1	End	3713
Name	OJ000150_07.0124.C34.ol.tw	Method	TBLASTX:Wheat
Start	638	End	1171
GI	none	Score	234
Exons	638..718, 746..1171		

Seq. No.	27817	Seq. ID	OJ000150_07.0124.C35
Gene No.	57413	Strand	-
Start	1	End	549
Name	OJ000150_07.0124.C35.ol.np	Method	AAT/NAP
Start	1	End	549
GI	5091513	Score	682
Exons	1..549		

GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. No.	27817	Seq. ID	OJ000150_07.0124.C35
Gene No.	57413	Strand	-
Start	1	End	549
Name	OJ000150_07.0124.C35.ol.gs	Method	GENSCAN
Start	14	End	468

GI	none	Score	.54
Exons	14..468		
Seq. No.	27818	Seq. ID	OJ000150_06.0124.C1
Gene No.	57414	Strand	+
Start	932	End	1006
Name	OJ000150_06.0124.C1.o1.gp	Method	AAT/GAP
Start	932	End	1006
GI	uC-osflcyp033a04b1	Score	131
Exons	932..1006		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	27818	Seq. ID	OJ000150_06.0124.C1
Gene No.	57415	Strand	-
Start	1	End	1006
Name	OJ000150_06.0124.C1.o1.np	Method	AAT/NAP
Start	1	End	1006
GI	5852180	Score	163
Exons	1..178, 970..1006		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	27818	Seq. ID	OJ000150_06.0124.C1
Gene No.	57415	Strand	-
Start	1	End	1006
Name	OJ000150_06.0124.C1.o2.np	Method	AAT/NAP
Start	861	End	1006
GI	4680186	Score	115
Exons	861..1006		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	27819	Seq. ID	OJ000150_06.0124.C2
Gene No.	57416	Strand	-
Start	375	End	713
Name	OJ000150_06.0124.C2.o1.tm	Method	TBLASTX:Maize
Start	270	End	666
GI	none	Score	55
Exons	270..347, 270..347, 370..522, 446..568, 447..569, 564..602, 606..665, 612..665, 613..666		

Seq. No.	27819	Seq. ID	OJ000150_06.0124.C2
Gene No.	57416	Strand	-
Start	375	End	713
Name	OJ000150_06.0124.C2.o1.gs	Method	GENSCAN
Start	375	End	713
GI	none	Score	.59
Exons	375..713		

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57417	Strand	-
Start	1	End	8923
Name	OJ000150_06.0124.C3.o1.np	Method	AAT/NAP
Start	1	End	3216
GI	4510395	Score	1628
Exons	1..297, 438..609, 801..919, 1206..1293, 1423..1617, 1736..2039, 2131..2255, 2818..2901, 3052..3216		
GI Descrip.	(AC006587) putative beta-galactosidase [Arabidopsis thaliana]		

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57417	Strand	-
Start	1	End	8923
Name	OJ000150_06.0124.C3.o1.gs	Method	GENSCAN
Start	117	End	8923
GI	none	Score	.73
Exons	117..334, 442..609, 801..919, 1206..1293, 1423..1617, 1691..2039, 2131..2248, 2802..2901, 3052..3467, 3752..3907, 5956..6012, 6035..6100, 6467..6580, 7047..7095, 7193..7305, 8826..8923		

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57417	Strand	-
Start	1	End	8923
Name	OJ000150_06.0124.C3.o1.gp	Method	AAT/GAP
Start	1742	End	2250
GI	LIB3477-004-P1-K1-A11	Score	773
Exons	1742..2039, 2131..2250		
GI Descrip.	'4510395/gb AAD21482.1  1.0e-65 (AC006587) putative beta-galactosidase precursor [Arabidopsis thaliana]'		

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o2.tm	Method	TBLASTX:Maize
Start	92	End	352
GI	none	Score	146
Exons	92..352, 98..253, 108..335, 118..336		

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o1.tc	Method	TBLASTX:Cress
Start	107	End	3144
GI	none	Score	69
Exons	107..199, 108..224, 433..576, 434..508, 445..570, 801..920, 814..921, 1204..1293, 1238..1294, 1423..1617, 1445..1618, 1733..2038, 1740..2039, 2130..2246, 2131..2244, 2806..2904, 3049..3144		

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o1.tm	Method	TBLASTX:Maize
Start	439	End	3142
GI	none	Score	68
Exons	439..576, 440..532, 813..920, 814..921, 1204..1293, 1226..1300, 1238..1294, 1423..1617, 1424..1618, 1535..1618, 1733..2038, 1740..2039, 2130..2246, 2136..2246, 2806..2904, 2807..2902, 2821..2907, 3034..3141, 3035..3142		

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o2.ts	Method	TBLASTX:Soybean
Start	439	End	583

GI	none	Score	142
Exons	439..582, 443..583		

  

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o1.ts	Method	TBLASTX:Soybean
Start	798	End	3144
GI	none	Score	100
Exons	798..920, 799..921, 1204..1293, 1238..1294, 1423..1617, 1424..1618, 1733..2038, 1737..1793, 1863..2039, 2130..2246, 2131..2247, 2806..2904, 2807..2902, 3049..3144, 3056..3142		

  

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o2.gp	Method	AAT/GAP
Start	9266	End	9702
GI	2355_1.R1084	Score	821
Exons	9266..9702		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

  

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o3.tm	Method	TBLASTX:Maize
Start	9533	End	9702
GI	none	Score	140
Exons	9533..9679, 9533..9658, 9538..9702, 9546..9674		

  

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o1.tw	Method	TBLASTX:Wheat
Start	9545	End	9714
GI	none	Score	226
Exons	9545..9658, 9553..9714, 9556..9702, 9558..9710		

  

Seq. No.	27820	Seq. ID	OJ000150_06.0124.C3
Gene No.	57418	Strand	-
Start	9266	End	10158
Name	OJ000150_06.0124.C3.o2.np	Method	AAT/NAP
Start	9555	End	10158
GI	6562266	Score	116
Exons	9555..9702, 10127..10158		
GI Descrip.	(AL132980) putative protein [Arabidopsis thaliana]		

  

Seq. No.	27821	Seq. ID	OJ000150_06.0124.C4
Gene No.	57419	Strand	-
Start	1	End	1996
Name	OJ000150_06.0124.C4.o1.np	Method	AAT/NAP
Start	1	End	970
GI	6562266	Score	425
Exons	1..394, 832..970		
GI Descrip.	(AL132980) putative protein [Arabidopsis thaliana]		

Seq. No. 27821  
 Gene No. 57419  
 Start 1  
 Name OJ000150\_06.0124.C4.o1.tm  
 Start 33  
 GI none  
 Exons 33..236, 35..238, 35..238

Seq. ID OJ000150\_06.0124.C4  
 Strand -  
 End 1996  
 Method TBLASTX:Maize  
 End 238  
 Score 265

Seq. No. 27821  
 Gene No. 57419  
 Start 1  
 Name OJ000150\_06.0124.C4.o1.tw  
 Start 33  
 GI none  
 Exons 33..182, 35..181

Seq. ID OJ000150\_06.0124.C4  
 Strand -  
 End 1996  
 Method TBLASTX:Wheat  
 End 182  
 Score 186

Seq. No. 27821  
 Gene No. 57419  
 Start 1  
 Name OJ000150\_06.0124.C4.o1.ts  
 Start 34  
 GI none  
 Exons 34..126, 35..127, 106..387, 118..384, 125..388, 137..388

Seq. ID OJ000150\_06.0124.C4  
 Strand -  
 End 1996  
 Method TBLASTX:Soybean  
 End 388  
 Score 67

Seq. No. 27821  
 Gene No. 57419  
 Start 1  
 Name OJ000150\_06.0124.C4.o1.gs  
 Start 173  
 GI none  
 Exons 173..373, 1058..1137, 1663..1862, 1912..1996

Seq. ID OJ000150\_06.0124.C4  
 Strand -  
 End 1996  
 Method GENSCAN  
 End 1996  
 Score .58

Seq. No. 27821  
 Gene No. 57419  
 Start 1  
 Name OJ000150\_06.0124.C4.o1.gp  
 Start 181  
 GI 9214\_2.R1084  
 Exons 181..386, 824..924, 1021..1215, 1663..1813

Seq. ID OJ000150\_06.0124.C4  
 Strand -  
 End 1996  
 Method AAT/GAP  
 End 1813  
 Score 1180

GI Descrip. '6016845/dbj|AP000570.1|AP000570 2.0e-12 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 27821  
 Gene No. 57419  
 Start 1  
 Name OJ000150\_06.0124.C4.o2.tm  
 Start 238  
 GI none  
 Exons 238..393, 239..394, 241..384, 825..902, 825..902, 826..903

Seq. ID OJ000150\_06.0124.C4  
 Strand -  
 End 1996  
 Method TBLASTX:Maize  
 End 903  
 Score 192

Seq. No. 27822  
 Gene No. 57420  
 Start 174  
 Name OJ000150\_06.0124.C5.o1.gp  
 Start 174  
 GI none  
 Exons 174..480, 1594..1734

Seq. ID OJ000150\_06.0124.C5  
 Strand +  
 End 1734  
 Method AAT/GAP  
 End 1734  
 Score 826

Seq. No.	27822	Seq. ID	OJ000150_06.0124.C5
Gene No.	57421	Strand	+
Start	1893	End	2056
Name	OJ000150_06.0124.C5.o1.np	Method	AAT/NAP
Start	1893	End	2056
GI	4467124	Score	150
Exons	1893..2056		
GI Descrip.	(AL035538) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57422	Strand	+
Start	236	End	1560
Name	OJ000150_06.0124.C6.o1.gs	Method	GENSCAN
Start	236	End	1560
GI	none	Score	.53
Exons	236..263, 1046..1560		
Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57423	Strand	-
Start	3009	End	8029
Name	OJ000150_06.0124.C6.o1.gp	Method	AAT/GAP
Start	3009	End	4145
GI	5594_1.R1084	Score	1521
Exons	3009..3442, 3546..3714, 3799..3968, 4080..4145		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		
Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57423	Strand	-
Start	3009	End	8029
Name	OJ000150_06.0124.C6.o2.gs	Method	GENSCAN
Start	3299	End	7990
GI	none	Score	.76
Exons	3299..3442, 3546..3714, 3799..3968, 4080..4258, 4357..4422, 4514..4687, 4936..5234, 5479..5579, 5671..5755, 5870..6023, 6124..6329, 7746..7990		
Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57423	Strand	-
Start	3009	End	8029
Name	OJ000150_06.0124.C6.o1.np	Method	AAT/NAP
Start	3302	End	8029
GI	4490732	Score	2502
Exons	3302..3442, 3546..3714, 3799..3968, 4080..4258, 4357..4422, 4514..4687, 4936..5234, 5479..5579, 5671..5755, 5870..6023, 6124..6329, 7746..8029		
GI Descrip.	(AL035709) phosphoenolpyruvate carboxykinase (ATP)-like protein [Arabidopsis thaliana]		
Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57423	Strand	-
Start	3009	End	8029
Name	OJ000150_06.0124.C6.o2.gp	Method	AAT/GAP
Start	5047	End	6017
GI	uC-osroM202032e08b1	Score	932
Exons	5047..5234, 5479..5579, 5671..5755, 5870..6017		



GI Descrip. '4490732/emb|CAB38935.1| 2.0e-87 (AL035709) phosphoenolpyruvate carboxykinase (ATP)-like protein [Arabidopsis thaliana]'

Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57424	Strand	-
Start	9148	End	10979
Name	OJ000150_06.0124.C6.o3.gs	Method	GENSCAN
Start	9148	End	10979
GI	none	Score	.78
Exons	9148..9252, 10386..10449, 10843..10979		

Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57425	Strand	-
Start	12914	End	13264
Name	OJ000150_06.0124.C6.o3.tm	Method	TBLASTX:Maize
Start	1140	End	1538
GI	none	Score	229
Exons	1140..1379, 1144..1353, 1160..1411, 1179..1412, 1417..1479, 1485..1538		

Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57425	Strand	-
Start	12914	End	13264
Name	OJ000150_06.0124.C6.o1.tm	Method	TBLASTX:Maize
Start	3180	End	5757
GI	none	Score	181
Exons	3180..3197, 3289..3441, 3295..3351, 3299..3442, 3369..3443, 3528..3716, 3532..3747, 3598..3717, 3795..3968, 3796..3969, 3796..3972, 4077..4271, 4078..4260, 4080..4271, 4358..4423, 4359..4424, 4515..4712, 4516..4689, 4932..5237, 4934..5233, 5461..5583, 5463..5579, 5467..5580, 5653..5757, 5667..5756		

Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57425	Strand	-
Start	12914	End	13264
Name	OJ000150_06.0124.C6.o1.tc	Method	TBLASTX:Cress
Start	3299	End	4643
GI	none	Score	136
Exons	3299..3442, 3303..3437, 3540..3713, 3550..3711, 3795..3842, 3799..3843, 3810..3968, 3856..3969, 3877..3972, 4077..4187, 4078..4185, 4183..4260, 4188..4268, 4188..4259, 4358..4423, 4359..4424, 4361..4432, 4515..4643, 4516..4614, 4521..4643		

Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57425	Strand	-
Start	12914	End	13264
Name	OJ000150_06.0124.C6.o1.ts	Method	TBLASTX:Soybean
Start	3299	End	7942
GI	none	Score	112
Exons	3299..3442, 3300..3419, 3540..3713, 3547..3747, 3795..3968, 3799..3969, 4077..4259, 4078..4260, 4357..4413, 4358..4423, 4359..4424, 4515..4712, 4516..4611, 4518..4643, 4663..4689, 4932..5237, 4934..5233, 5419..5583, 5463..5579, 5476..5628, 5653..5757, 5669..5770, 5869..6054, 5873..6028, 5972..6028, 6096..6182, 6125..6178, 6258..6332, 6272..6331, 7823..7942, 7827..7916		

Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57425	Strand	-
Start	12914	End	13264
Name	OJ000150_06.0124.C6.o2.tc	Method	TBLASTX:Cress
Start	4644	End	7934
GI	none	Score	346
Exons	4644..4712, 4932..5237, 4934..5233, 5419..5583, 5463..5579, 5476..5601, 5653..5757, 5669..5755, 5869..6054, 5873..6028, 6125..6181, 6126..6182, 6264..6332, 6272..6331, 7793..7933, 7821..7934		

Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57425	Strand	-
Start	12914	End	13264
Name	OJ000150_06.0124.C6.o2.tm	Method	TBLASTX:Maize
Start	6270	End	7984
GI	none	Score	96
Exons	6270..6344, 6272..6331, 7746..7928, 7790..7933, 7943..7984, 7944..7982		

Seq. No.	27823	Seq. ID	OJ000150_06.0124.C6
Gene No.	57425	Strand	-
Start	12914	End	13264
Name	OJ000150_06.0124.C6.o4.gs	Method	GENSCAN
Start	12914	End	13264
GI	none	Score	.99
Exons	12914..13045, 13223..13264		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57426	Strand	+
Start	73	End	2924
Name	OJ000150_06.0124.C7.o1.gs	Method	GENSCAN
Start	73	End	2924
GI	none	Score	.68
Exons	73..222, 526..602, 650..676, 1361..1515, 2182..2304, 2654..2742, 2807..2924		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57427	Strand	+
Start	17598	End	19646
Name	OJ000150_06.0124.C7.o4.gs	Method	GENSCAN
Start	17598	End	18233
GI	none	Score	1
Exons	17598..18233		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57427	Strand	+
Start	17598	End	19646
Name	OJ000150_06.0124.C7.o4.np	Method	AAT/NAP
Start	17812	End	19646
GI	6907106	Score	472
Exons	17812..17866, 18764..18830, 18933..19646		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57428	Strand	+

Start	28466	End	32516
Name	OJ000150_06.0124.C7.o6.np	Method	AAT/NAP
Start	28466	End	32516
GI	4680183	Score	151
Exons	28466..28513, 32399..32516		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57429	Strand	-
Start	3883	End	8353
Name	OJ000150_06.0124.C7.o2.gs	Method	GENSCAN
Start	3883	End	8353
GI	none	Score	.69
Exons	3883..3933, 6014..6121, 8246..8353		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57430	Strand	-
Start	8590	End	13460
Name	OJ000150_06.0124.C7.o3.gs	Method	GENSCAN
Start	8590	End	12367
GI	none	Score	.64
Exons	8590..8646, 9163..9185, 9909..10031, 10037..10340, 10695..10889, 11789..11939, 12072..12367		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57430	Strand	-
Start	8590	End	13460
Name	OJ000150_06.0124.C7.o2.np	Method	AAT/NAP
Start	8712	End	8885
GI	6069646	Score	74
Exons	8712..8885		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57430	Strand	-
Start	8590	End	13460
Name	OJ000150_06.0124.C7.o3.np	Method	AAT/NAP
Start	10623	End	13460
GI	5922619	Score	313
Exons	10623..10747, 11736..11981, 12072..12259, 13435..13460		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016852 dbj BAA85195.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57430	Strand	-
Start	8590	End	13460
Name	OJ000150_06.0124.C7.o1.gp	Method	AAT/GAP
Start	12104	End	12483
GI	4715516	Score	714
Exons	12104..12483		
GI Descrip.	6016845/dbj AP000570.1 AP000570 2.0e-12 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o5.gs	Method	GENSCAN
Start	18490	End	34346
GI	none	Score	.48
Exons	18490..18527, 18650..18922, 18931..19152, 19271..19484, 19535..19663, 20780..20925, 21251..21344, 22665..22757, 22883..23007, 23124..23379, 24199..24576, 25720..25767, 26052..26218, 26880..26985, 27282..27319, 27391..27478, 28024..28132, 28494..28576, 28658..28720, 28799..28861, 29093..29191, 29270..29308, 29855..30024, 30192..30473, 30604..30741, 31322..31586, 33796..33971, 33977..34346		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o4.tm	Method	TBLASTX:Maize
Start	19273	End	19549
GI	none	Score	141
Exons	19273..19368, 19290..19367, 19351..19464, 19438..19548, 19490..19549		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o2.gp	Method	AAT/GAP
Start	22033	End	22439
GI	none	Score	784
Exons	22033..22439		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o3.gp	Method	AAT/GAP
Start	22479	End	22759
GI	none	Score	510
Exons	22479..22759		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o5.gp	Method	AAT/GAP
Start	22716	End	23273
GI	none	Score	517
Exons	22716..22757, 23040..23273		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o2.tm	Method	TBLASTX:Maize
Start	25584	End	27426
GI	none	Score	45
Exons	25584..25643, 25585..25641, 25585..25665, 25685..25768, 25685..25768, 25687..25770, 25687..25770, 26049..26219, 26050..26226, 26878..26985, 26879..26986, 26879..27013,		

27272..27322, 27276..27332, 27280..27321, 27390..27425,  
27400..27426

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o6.gp	Method	AAT/GAP
Start	25590	End	27478
GI	18249_1.R1084	Score	1018
Exons	25590..25767, 26052..26218, 26880..26985, 27282..27319, 27391..27478		
GI Descrip.	'399942/sp Q02028 HS7S_PEA 4.0e-48 CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR >gi_421881_pir_S32818 heat shock protein, 70K, chloroplast - garden pea >gi_169023 (L03299) 70 kDa heat shock protein [Pisum sativum] >gi_871515_emb_CAA49147_ (X69213) Psst70 (stress 70 protein) [Pisum sativum]'		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o5.np	Method	AAT/NAP
Start	25711	End	30667
GI	4455213	Score	1725
Exons	25711..25767, 26052..26218, 26880..26985, 27282..27319, 27391..27478, 27902..27955, 28024..28132, 28494..28576, 28658..28720, 28799..28861, 29093..29191, 29270..29308, 29396..29451, 29658..29772, 29855..30024, 30192..30667		
GI Descrip.	(AL035440) glutamine amidotransferase/cyclase [Arabidopsis thaliana]		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o1.tc	Method	TBLASTX:Cress
Start	26052	End	30477
GI	none	Score	83
Exons	26052..26120, 26053..26109, 26055..26216, 26100..26219, 26104..26226, 26878..26985, 26879..26986, 27276..27320, 27277..27321, 27389..27478, 27390..27482, 27392..27484, 27902..27955, 27909..27956, 28016..28135, 28021..28134, 28493..28576, 28494..28580, 28655..28720, 28665..28718, 28796..28858, 28800..28856, 29090..29194, 29133..29192, 29265..29315, 29267..29314, 29659..29772, 29660..29773, 29855..30025, 29867..30016, 29937..30026, 29937..30026, 30187..30477, 30188..30442		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o2.ts	Method	TBLASTX:Soybean
Start	26052	End	28062
GI	none	Score	147
Exons	26052..26216, 26052..26219, 26053..26226, 26878..26985, 26879..26986, 27276..27320, 27277..27333, 27389..27478, 27390..27482, 27407..27484, 27902..27955, 27909..27956, 28016..28060, 28021..28062		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o5.tm	Method	TBLASTX:Maize
Start	27428	End	28145
GI	none	Score	90
Exons	27428..27478, 27898..27975, 27900..27953, 27902..27955, 28016..28135, 28021..28134, 28023..28145		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o7.gp	Method	AAT/GAP
Start	27909	End	29303
GI	uC-osflcyp078c12b1	Score	808
Exons	27909..27955, 28024..28132, 28494..28576, 28658..28720, 28799..28861, 29093..29191, 29270..29303		
GI Descrip.	'3219164/dbj BAA28783  1.0e-69 (AB006210) glutamine amidotransferase/cyclase [Arabidopsis thaliana]'		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o1.ts	Method	TBLASTX:Soybean
Start	28505	End	30288
GI	none	Score	102
Exons	28505..28576, 28506..28577, 28655..28720, 28656..28721, 28796..28858, 28797..28859, 29090..29146, 29090..29194, 29133..29192, 29267..29305, 29659..29772, 29660..29773, 29845..29901, 29855..30025, 29922..30026, 29925..30026, 30187..30288, 30194..30286		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o3.tm	Method	TBLASTX:Maize
Start	28541	End	29458
GI	none	Score	48
Exons	28541..28576, 28542..28577, 28542..28577, 28655..28720, 28656..28721, 28656..28721, 28658..28831, 28765..28863, 28796..28858, 28797..28862, 28798..28863, 29080..29184, 29090..29146, 29090..29194, 29133..29192, 29265..29315, 29267..29314, 29268..29318, 29387..29458, 29388..29453		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o1.tm	Method	TBLASTX:Maize
Start	29936	End	30703
GI	none	Score	144
Exons	29936..30025, 29937..30026, 30188..30442, 30193..30537, 30650..30703		

Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915

Name	OJ000150_06.0124.C7.o3.ts	Method	TBLASTX:Soybean
Start	30298	End	30477
GI	none	Score	106
Exons	30298..30477, 30305..30445		
Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o8.gp	Method	AAT/GAP
Start	30604	End	30721
GI	none	Score	205
Exons	30604..30721		
Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o9.gp	Method	AAT/GAP
Start	31685	End	31793
GI	uC-osflcyp088b12b1	Score	153
Exons	31685..31793		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	27824	Seq. ID	OJ000150_06.0124.C7
Gene No.	57431	Strand	-
Start	18490	End	37915
Name	OJ000150_06.0124.C7.o7.np	Method	AAT/NAP
Start	33324	End	37915
GI	5917666	Score	272
Exons	33324..33710, 33784..34683, 35528..35637, 37771..37915		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		
Seq. No.	27825	Seq. ID	OJ000150_06.0124.C8
Gene No.	57432	Strand	+
Start	480	End	3214
Name	OJ000150_06.0124.C8.o2.np	Method	AAT/NAP
Start	480	End	3214
GI	4416301	Score	494
Exons	480..1637, 1706..2068, 3157..3214		
GI Descrip.	(AF105716) gag protein [Zea mays]		
Seq. No.	27825	Seq. ID	OJ000150_06.0124.C8
Gene No.	57432	Strand	+
Start	480	End	3214
Name	OJ000150_06.0124.C8.o1.np	Method	AAT/NAP
Start	499	End	2278
GI	3645898	Score	597
Exons	499..1671, 1714..2059, 2132..2278		
GI Descrip.	(U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		
Seq. No.	27825	Seq. ID	OJ000150_06.0124.C8
Gene No.	57432	Strand	+
Start	480	End	3214
Name	OJ000150_06.0124.C8.o1.gs	Method	GENSCAN
Start	753	End	2998
GI	none	Score	.56

Exons 753..1044, 1183..2184, 2319..2447, 2568..2782, 2855..2998

Seq. No.	27825	Seq. ID	OJ000150_06.0124.C8
Gene No.	57432	Strand	+
Start	480	End	3214
Name	OJ000150_06.0124.C8.o2.tm	Method	TBLASTX:Maize
Start	783	End	1187
GI	none	Score	238
Exons	783..1187, 884..1174		

Seq. No.	27825	Seq. ID	OJ000150_06.0124.C8
Gene No.	57432	Strand	+
Start	480	End	3214
Name	OJ000150_06.0124.C8.o1.tm	Method	TBLASTX:Maize
Start	2750	End	3166
GI	none	Score	79
Exons	2750..2803, 2753..2803, 2755..2817, 2809..2934, 2813..3037, 2819..3025, 3079..3165, 3101..3166		

Seq. No.	27825	Seq. ID	OJ000150_06.0124.C8
Gene No.	57432	Strand	+
Start	480	End	3214
Name	OJ000150_06.0124.C8.o3.np	Method	AAT/NAP
Start	2849	End	3214
GI	3645899	Score	379
Exons	2849..3214		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o1.np	Method	AAT/NAP
Start	1	End	3158
GI	3645899	Score	3792
Exons	1..1298, 1407..3158		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o4.tm	Method	TBLASTX:Maize
Start	96	End	491
GI	none	Score	131
Exons	96..215, 213..491, 213..479, 221..490		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o1.tw	Method	TBLASTX:Wheat
Start	255	End	827
GI	none	Score	274
Exons	255..533, 257..484, 515..541, 516..539, 539..826, 543..827		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o2.tm	Method	TBLASTX:Maize



Start	491	End	1184
GI	none	Score	108
Exons	491..565, 492..563, 497..1141, 564..1154, 564..1184, 622..1179		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o3.ts	Method	TBLASTX:Soybean
Start	672	End	1133
GI	none	Score	303
Exons	672..1133, 692..877, 908..976		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o1.tc	Method	TBLASTX:Cress
Start	708	End	1130
GI	none	Score	227
Exons	708..1130		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o3.tw	Method	TBLASTX:Wheat
Start	915	End	1154
GI	none	Score	111
Exons	915..992, 992..1141, 1005..1154, 1005..1154		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o5.tm	Method	TBLASTX:Maize
Start	1485	End	1790
GI	none	Score	421
Exons	1485..1790, 1497..1787		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o1.ts	Method	TBLASTX:Soybean
Start	1523	End	2131
GI	5509260	Score	236
Exons	1523..1744, 1524..1742, 1740..1979, 1748..2131, 1749..2129, 1903..2130		

GI Descrip. -

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167
Name	OJ000150_06.0124.C9.o2.tw	Method	TBLASTX:Wheat
Start	1665	End	2123
GI	none	Score	93
Exons	1665..1742, 1770..2117, 1772..2104, 2019..2123		

Seq. No.	27826	Seq. ID	OJ000150_06.0124.C9
Gene No.	57433	Strand	+
Start	1	End	3167

Name OJ000150\_06.0124.C9.o3.tc  
 Start 1731  
 GI none  
 Exons 1731..2012, 1736..1993

Method TBLASTX:Cress  
 End 2012  
 Score 203

Seq. No. 27826  
 Gene No. 57433  
 Start 1  
 Name OJ000150\_06.0124.C9.o3.tm  
 Start 1791  
 GI none  
 Exons 1791..2258, 1793..2257, 2185..2259

Seq. ID OJ000150\_06.0124.C9  
 Strand +  
 End 3167  
 Method TBLASTX:Maize  
 End 2259  
 Score 635

Seq. No. 27826  
 Gene No. 57433  
 Start 1  
 Name OJ000150\_06.0124.C9.o6.tm  
 Start 2280  
 GI none  
 Exons 2280..2483, 2300..2482

Seq. ID OJ000150\_06.0124.C9  
 Strand +  
 End 3167  
 Method TBLASTX:Maize  
 End 2483  
 Score 254

Seq. No. 27826  
 Gene No. 57433  
 Start 1  
 Name OJ000150\_06.0124.C9.o4.tw  
 Start 2301  
 GI none  
 Exons 2301..2453, 2481..2717

Seq. ID OJ000150\_06.0124.C9  
 Strand +  
 End 3167  
 Method TBLASTX:Wheat  
 End 2717  
 Score 91

Seq. No. 27826  
 Gene No. 57433  
 Start 1  
 Name OJ000150\_06.0124.C9.o1.tm  
 Start 2484  
 GI none  
 Exons 2484..3167, 2492..3094, 2850..3167

Seq. ID OJ000150\_06.0124.C9  
 Strand +  
 End 3167  
 Method TBLASTX:Maize  
 End 3167  
 Score 985

Seq. No. 27826  
 Gene No. 57433  
 Start 1  
 Name OJ000150\_06.0124.C9.o2.ts  
 Start 2502  
 GI none  
 Exons 2502..2900, 2711..2890, 2910..3143, 2925..3020

Seq. ID OJ000150\_06.0124.C9  
 Strand +  
 End 3167  
 Method TBLASTX:Soybean  
 End 3143  
 Score 293

Seq. No. 27826  
 Gene No. 57433  
 Start 1  
 Name OJ000150\_06.0124.C9.o2.tc  
 Start 2682  
 GI none  
 Exons 2682..2771, 2775..2909, 2928..3140

Seq. ID OJ000150\_06.0124.C9  
 Strand +  
 End 3167  
 Method TBLASTX:Cress  
 End 3140  
 Score 71

Seq. No. 27826  
 Gene No. 57433  
 Start 1  
 Name OJ000150\_06.0124.C9.o5.tw

Seq. ID OJ000150\_06.0124.C9  
 Strand +  
 End 3167  
 Method TBLASTX:Wheat

Start	2727	End	3095
GI	none	Score	107
Exons	2727..2897, 2807..2896, 2919..3095, 2925..3092		

Seq. No.	27827	Seq. ID	OJ000150_06.0124.C10
Gene No.	57434	Strand	+
Start	555	End	1148
Name	OJ000150_06.0124.C10.ol.gs	Method	GENSCAN
Start	555	End	1148
GI	none	Score	.46
Exons	555..1148		

Seq. No.	27828	Seq. ID	OJ000150_06.0124.C12
Gene No.	57435	Strand	-
Start	1090	End	1409
Name	OJ000150_06.0124.C12.ol.gs	Method	GENSCAN
Start	1090	End	1409
GI	none	Score	.62
Exons	1090..1409		

Seq. No.	27829	Seq. ID	OJ000150_06.0124.C13
Gene No.	57436	Strand	-
Start	1314	End	1439
Name	OJ000150_06.0124.C13.ol.gs	Method	GENSCAN
Start	1314	End	1439
GI	none	Score	.92
Exons	1314..1439		

Seq. No.	27830	Seq. ID	OJ000150_06.0124.C14
Gene No.	57437	Strand	+
Start	4632	End	4954
Name	OJ000150_06.0124.C14.ol.np	Method	AAT/NAP
Start	4632	End	4954
GI	1196996	Score	518
Exons	4632..4954		
GI Descrip.	(J01829) unknown protein [Transposon Tn10]		

Seq. No.	27830	Seq. ID	OJ000150_06.0124.C14
Gene No.	57438	Strand	-
Start	240	End	2784
Name	OJ000150_06.0124.C14.ol.gs	Method	GENSCAN
Start	240	End	2784
GI	none	Score	.46
Exons	240..465, 494..597, 686..841, 895..1029, 2547..2654, 2743..2784		

Seq. No.	27830	Seq. ID	OJ000150_06.0124.C14
Gene No.	57438	Strand	-
Start	240	End	2784
Name	OJ000150_06.0124.C14.ol.tm	Method	TBLASTX:Maize
Start	297	End	865
GI	none	Score	62
Exons	297..368, 297..404, 298..405, 496..600, 497..598, 630..737, 686..865, 751..843		

Seq. No.	27830	Seq. ID	OJ000150_06.0124.C14
Gene No.	57439	Strand	
Start	4524	End	4672

Name	OJ000150_06.0124.C14.o1.tc	Method	TBLASTX:Cress
Start	4524	End	4672
GI	none	Score	200
Exons	4524..4670, 4526..4672		
Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57440	Strand	+
Start	2219	End	2647
Name	OJ000150_06.0124.C15.o1.gp	Method	AAT/GAP
Start	2219	End	2647
GI	uC-osroM202019d07a1	Score	746
Exons	2219..2647		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		
Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57441	Strand	+
Start	8544	End	9637
Name	OJ000150_06.0124.C15.o3.gs	Method	GENSCAN
Start	8544	End	9637
GI	none	Score	.61
Exons	8544..8613, 8865..8935, 8992..9015, 9230..9281, 9462..9637		
Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57442	Strand	+
Start	10646	End	12688
Name	OJ000150_06.0124.C15.o3.gp	Method	AAT/GAP
Start	10581	End	12688
GI	LIB3433-003-Q6-K6-F12	Score	814
Exons	10581..10700, 11550..11697, 12476..12688		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 9.0e-12 Homo sapiens PEX1 mRNA, complete cds'		
Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57442	Strand	+
Start	10646	End	12688
Name	OJ000150_06.0124.C15.o4.gs	Method	GENSCAN
Start	10646	End	12551
GI	none	Score	.98
Exons	10646..10700, 11550..11697, 12476..12551		
Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57443	Strand	+
Start	19602	End	22048
Name	OJ000150_06.0124.C15.o6.gs	Method	GENSCAN
Start	19602	End	22048
GI	none	Score	.71
Exons	19602..19685, 19784..19932, 20051..20091, 21381..21487, 21830..22048		
Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57444	Strand	-
Start	597	End	4811
Name	OJ000150_06.0124.C15.o1.gs	Method	GENSCAN
Start	597	End	4761
GI	none	Score	.75
Exons	597..731, 829..994, 1082..1185, 1283..1438, 2468..2548,		

2604..3548, 3634..3714, 3829..3951, 4098..4266, 4391..4761

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57444	Strand	-
Start	597	End	4811
Name	OJ000150_06.0124.C15.o2.gp	Method	AAT/GAP
Start	4070	End	4811
GI	uC-osroM202019d07b1	Score	950
Exons	4070..4266, 4391..4494, 4579..4811		
GI Descrip.	'3367591/emb CAA20043  2.0e-12 (AL031135) putative protein [Arabidopsis thaliana]'		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57445	Strand	-
Start	5489	End	7130
Name	OJ000150_06.0124.C15.o2.gs	Method	GENSCAN
Start	5489	End	7130
GI	none	Score	.48
Exons	5489..5647, 5926..6527, 6542..6628, 7061..7130		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o3.ts	Method	TBLASTX:Soybean
Start	854	End	4638
GI	none	Score	69
Exons	854..1012, 871..996, 1087..1194, 1109..1195, 4137..4268, 4390..4500, 4576..4638		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o4.tm	Method	TBLASTX:Maize
Start	886	End	4644
GI	none	Score	105
Exons	886..993, 887..994, 1084..1188, 1085..1186, 1283..1471, 1284..1472, 1347..1481, 1351..1482, 1555..1575, 4158..4208, 4158..4265, 4219..4266, 4393..4497, 4394..4435, 4579..4644		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o5.tm	Method	TBLASTX:Maize
Start	10628	End	12540
GI	none	Score	114
Exons	10628..10699, 11548..11694, 11549..11695, 11549..11731, 12475..12534, 12476..12535, 12477..12533, 12478..12540		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o6.tm	Method	TBLASTX:Maize
Start	13057	End	16027
GI	none	Score	134
Exons	13057..13245, 13058..13351, 13112..13336, 15737..16027, 15752..16015		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o1.tc	Method	TBLASTX:Cress
Start	13112	End	17581
GI	none	Score	81

Exons 13112..13345, 13113..13232, 13300..13335, 13325..13891,  
13337..13648, 13365..13751, 13700..13900, 13913..14152,  
13917..14078, 14162..14485, 14163..14480, 14477..14725,  
14490..14645, 14673..14768, 14783..14830, 14846..14905,  
14847..14891, 15809..15892, 15810..15983, 15947..16033,  
16031..16732, 16031..16738, 16814..17143, 16842..17135,  
16985..17149, 17141..17461, 17154..17441, 17453..17581

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o1.tm	Method	TBLASTX:Maize
Start	13358	End	16600
GI	none	Score	340

Exons 13358..13702, 13365..13703, 13691..13891, 13691..13900,  
13797..13901, 13902..13934, 13904..13933, 16028..16375,  
16029..16370, 16136..16378, 16367..16597, 16367..16600,  
16380..16598

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o1.ts	Method	TBLASTX:Soybean
Start	13472	End	16652
GI	none	Score	260

Exons 13472..13912, 13473..13901, 13898..13984, 13902..13985,  
16145..16651, 16146..16652

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o1.tw	Method	TBLASTX:Wheat
Start	13529	End	16627
GI	none	Score	56

Exons 13529..13909, 13658..13861, 13887..13952, 13919..13963,  
16202..16627, 16503..16619

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o3.tw	Method	TBLASTX:Wheat
Start	13985	End	19930
GI	none	Score	42

Exons 13985..14032, 13986..14039, 14033..14155, 14034..14156,  
14132..14305, 14178..14306, 16655..16696, 16662..16712,  
16701..16973, 16814..16972, 19828..19878, 19898..19930

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o3.tm	Method	TBLASTX:Maize

Start	14132	End	17135
GI	none	Score	117
Exons	14132..14470, 14133..14387, 14402..14464, 16820..17134, 16841..17134, 16842..17135		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o2.tw	Method	TBLASTX:Wheat
Start	14306	End	17231
GI	none	Score	163
Exons	14306..14560, 14307..14558, 14324..14563, 16973..17152, 16977..17138, 16985..17152, 17144..17230, 17157..17231		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o2.ts	Method	TBLASTX:Soybean
Start	14312	End	17602
GI	none	Score	102
Exons	14312..14362, 14375..14488, 14483..14656, 14484..14648, 14666..14731, 14798..14836, 14843..14992, 17039..17332, 17157..17291, 17339..17461, 17432..17602, 17451..17600		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o2.tm	Method	TBLASTX:Maize
Start	14471	End	17633
GI	none	Score	184
Exons	14471..14722, 14472..14777, 14718..14843, 14783..14863, 14846..14962, 14847..14957, 17144..17389, 17144..17632, 17157..17633		

Seq. No.	27831	Seq. ID	OJ000150_06.0124.C15
Gene No.	57446	Strand	-
Start	15677	End	19930
Name	OJ000150_06.0124.C15.o1.np	Method	AAT/NAP
Start	15677	End	17687
GI	3236253	Score	1759
Exons	15677..17687		
GI Descrip.	(AC004684) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	27832	Seq. ID	OJ000150_06.0124.C16
Gene No.	57447	Strand	-
Start	1338	End	2020
Name	OJ000150_06.0124.C16.o1.gs	Method	GENSCAN
Start	1338	End	2020
GI	none	Score	.76
Exons	1338..1454, 1970..2020		

Seq. No.	27833	Seq. ID	OJ000150_06.0124.C17
Gene No.	57448	Strand	+
Start	189	End	715
Name	OJ000150_06.0124.C17.o1.tm	Method	TBLASTX:Maize
Start	93	End	559

GI	none	Score	52
Exons	93..146, 95..148, 97..159, 164..199, 165..206, 167..205, 284..388, 285..392, 368..559, 507..557		

  

Seq. No.	27833	Seq. ID	OJ000150_06.0124.C17
Gene No.	57448	Strand	+
Start	189	End	715
Name	OJ000150_06.0124.C17.ol.gs	Method	GENSCAN
Start	189	End	671
GI	none	Score	.98
Exons	189..671		

  

Seq. No.	27833	Seq. ID	OJ000150_06.0124.C17
Gene No.	57448	Strand	+
Start	189	End	715
Name	OJ000150_06.0124.C17.ol.np	Method	AAT/NAP
Start	222	End	715
GI	5734715	Score	359
Exons	222..715		
GI Descrip.	(AC008075) Similar to gb AF110333 PrMC3 protein from Pinus radiata and is a member of PF 00135 Carboxylesterases family. EST gb N37841 comes from this gene. [Arabidopsis thaliana]		

  

Seq. No.	27833	Seq. ID	OJ000150_06.0124.C17
Gene No.	57448	Strand	+
Start	189	End	715
Name	OJ000150_06.0124.C17.ol.tw	Method	TBLASTX:Wheat
Start	276	End	706
GI	none	Score	93
Exons	276..347, 277..348, 284..388, 285..401, 496..591, 507..695, 507..695, 509..706		

  

Seq. No.	27833	Seq. ID	OJ000150_06.0124.C17
Gene No.	57448	Strand	+
Start	189	End	715
Name	OJ000150_06.0124.C17.ol.tc	Method	TBLASTX:Cress
Start	297	End	662
GI	none	Score	71
Exons	297..365, 507..662, 509..610		

  

Seq. No.	27833	Seq. ID	OJ000150_06.0124.C17
Gene No.	57448	Strand	+
Start	189	End	715
Name	OJ000150_06.0124.C17.ol.ts	Method	TBLASTX:Soybean
Start	521	End	692
GI	none	Score	232
Exons	521..610, 522..692		

  

Seq. No.	27834	Seq. ID	OJ000150_06.0124.C19
Gene No.	57449	Strand	-
Start	62	End	1123
Name	OJ000150_06.0124.C19.ol.gs	Method	GENSCAN
Start	62	End	1059
GI	none	Score	.8
Exons	62..138, 252..1059		

  

Seq. No.	27834	Seq. ID	OJ000150_06.0124.C19
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Gene No.	57449	Strand	-
Start	62	End	1123
Name	OJ000150_06.0124.C19.o1.tm	Method	TBLASTX:Maize
Start	450	End	670
GI	none	Score	66
Exons	450..515, 455..670, 457..669		

Seq. No.	27834	Seq. ID	OJ000150_06.0124.C19
Gene No.	57449	Strand	-
Start	62	End	1123
Name	OJ000150_06.0124.C19.o2.np	Method	AAT/NAP
Start	535	End	1123
GI	6041845	Score	257
Exons	535..1123		
GI Descrip.	(AC009853) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27835	Seq. ID	OJ000150_06.0124.C21
Gene No.	57450	Strand	-
Start	1	End	1004
Name	OJ000150_06.0124.C21.o1.np	Method	AAT/NAP
Start	1	End	1004
GI	6041845	Score	235
Exons	1..209, 636..892, 969..1004		
GI Descrip.	(AC009853) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27835	Seq. ID	OJ000150_06.0124.C21
Gene No.	57450	Strand	-
Start	1	End	1004
Name	OJ000150_06.0124.C21.o2.np	Method	AAT/NAP
Start	1	End	827
GI	4467124	Score	228
Exons	1..28, 453..827		
GI Descrip.	(AL035538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27835	Seq. ID	OJ000150_06.0124.C21
Gene No.	57450	Strand	-
Start	1	End	1004
Name	OJ000150_06.0124.C21.o1.gs	Method	GENSCAN
Start	124	End	975
GI	none	Score	.99
Exons	124..975		

Seq. No.	27836	Seq. ID	OJ000150_06.0124.C23
Gene No.	57451	Strand	-
Start	95	End	522
Name	OJ000150_06.0124.C23.o1.gp	Method	AAT/GAP
Start	95	End	522
GI	uC-osroM202019d07a1	Score	761
Exons	95..522		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	27836	Seq. ID	OJ000150_06.0124.C23
Gene No.	57451	Strand	-
Start	95	End	522
Name	OJ000150_06.0124.C23.o1.gs	Method	GENSCAN
Start	147	End	291

GI	none	Score	.48
Exons	147..291		
Seq. No.	27837	Seq. ID	OJ000150_06.0124.C24
Gene No.	57452	Strand	-
Start	1	End	84
Name	OJ000150_06.0124.C24.o1.gp	Method	AAT/GAP
Start	1	End	84
GI	none	Score	137
Exons	1..84		
Seq. No.	27837	Seq. ID	OJ000150_06.0124.C24
Gene No.	57453	Strand	-
Start	124	End	400
Name	OJ000150_06.0124.C24.o2.gp	Method	AAT/GAP
Start	124	End	400
GI	none	Score	523
Exons	124..400		
Seq. No.	27837	Seq. ID	OJ000150_06.0124.C24
Gene No.	57454	Strand	-
Start	308	End	400
Name	OJ000150_06.0124.C24.o1.gs	Method	GENSCAN
Start	308	End	400
GI	none	Score	.54
Exons	308..400		
Seq. No.	27838	Seq. ID	OJ000150_06.0124.C25
Gene No.	57455	Strand	-
Start	117	End	410
Name	OJ000150_06.0124.C25.o1.gs	Method	GENSCAN
Start	117	End	350
GI	none	Score	.42
Exons	117..350		
Seq. No.	27838	Seq. ID	OJ000150_06.0124.C25
Gene No.	57455	Strand	-
Start	117	End	410
Name	OJ000150_06.0124.C25.o1.np	Method	AAT/NAP
Start	120	End	410
GI	4680179	Score	437
Exons	120..410		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	27838	Seq. ID	OJ000150_06.0124.C25
Gene No.	57455	Strand	-
Start	117	End	410
Name	OJ000150_06.0124.C25.o1.tw	Method	TBLASTX:Wheat
Start	165	End	410
GI	none	Score	89
Exons	165..410, 229..405		
Seq. No.	27838	Seq. ID	OJ000150_06.0124.C25
Gene No.	57455	Strand	-
Start	117	End	410
Name	OJ000150_06.0124.C25.o1.tm	Method	TBLASTX:Maize
Start	216	End	410

GI	none	Score	101
Exons	216..410, 265..408		
Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57456	Strand	+
Start	1468	End	6510
Name	OJ000150_06.0124.C26.o3.np	Method	AAT/NAP
Start	1468	End	6510
GI	4680186	Score	346
Exons	1468..1523, 5425..5473, 6309..6510		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57457	Strand	+
Start	8175	End	8379
Name	OJ000150_06.0124.C26.o4.np	Method	AAT/NAP
Start	8175	End	8379
GI	4680186	Score	210
Exons	8175..8379		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57458	Strand	-
Start	1	End	6443
Name	OJ000150_06.0124.C26.o1.np	Method	AAT/NAP
Start	1	End	4119
GI	4680179	Score	4873
Exons	1..3018, 3052..4119		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57458	Strand	-
Start	1	End	6443
Name	OJ000150_06.0124.C26.o1.gs	Method	GENSCAN
Start	27	End	6338
GI	none	Score	.72
Exons	27..4116, 4340..4368, 4407..5172, 6273..6338		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57458	Strand	-
Start	1	End	6443
Name	OJ000150_06.0124.C26.o1.gp	Method	AAT/GAP
Start	4443	End	4897
GI	95437_1.R1084	Score	778
Exons	4443..4897		
GI Descrip.	'4512226/dbj AB014738.1 AB014738 1.0e-134 Oryza sativa gypsy-type retrotransposon RIRE3 DNA, internal region, complete sequence'		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57458	Strand	-
Start	1	End	6443
Name	OJ000150_06.0124.C26.o2.gp	Method	AAT/GAP
Start	6058	End	6443
GI	uC-osflcyp033a04b1	Score	641
Exons	6058..6443		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic		

## DNA, chromosome 1, clone:P0711E10'

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57459	Strand	-
Start	7416	End	7921
Name	OJ000150_06.0124.C26.o3.gs	Method	GENSCAN
Start	7416	End	7921
GI	none	Score	.7
Exons	7416..7482, 7845..7921		
Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o1.tm	Method	TBLASTX:Maize
Start	1	End	441
GI	none	Score	152
Exons	1..282, 2..283, 280..441, 287..439		
Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o1.tw	Method	TBLASTX:Wheat
Start	1	End	621
GI	none	Score	55
Exons	1..120, 1..621, 107..565		
Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o4.tm	Method	TBLASTX:Maize
Start	490	End	782
GI	none	Score	215
Exons	490..780, 494..781, 594..782		
Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o2.ts	Method	TBLASTX:Soybean
Start	579	End	840
GI	none	Score	149
Exons	579..710, 580..840, 581..835		
Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o1.tc	Method	TBLASTX:Cress
Start	604	End	921
GI	none	Score	74
Exons	604..747, 605..745, 748..921		
Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o2.tw	Method	TBLASTX:Wheat
Start	628	End	1195
GI	none	Score	339
Exons	628..1164, 632..1195		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o2.tm	Method	TBLASTX:Maize
Start	1186	End	1549
GI	none	Score	177
Exons	1186..1548, 1195..1548, 1199..1549		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o3.tw	Method	TBLASTX:Wheat
Start	1198	End	1620
GI	none	Score	348
Exons	1198..1620, 1199..1588		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o3.ts	Method	TBLASTX:Soybean
Start	1369	End	1614
GI	none	Score	66
Exons	1369..1614, 1469..1597		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o3.tm	Method	TBLASTX:Maize
Start	1585	End	2085
GI	none	Score	50
Exons	1585..1899, 1628..1678, 1706..1759, 1906..2085, 1931..2077		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o5.tw	Method	TBLASTX:Wheat
Start	1621	End	1923
GI	none	Score	266
Exons	1621..1923, 1637..1921, 1842..1922		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o1.ts	Method	TBLASTX:Soybean
Start	1636	End	2031
GI	none	Score	190
Exons	1636..1995, 1637..1927, 1955..1993, 1999..2031, 2000..2029		

Seq. No.	27839	Seq. ID	OJ000150_06.0124.C26
Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o4.tw	Method	TBLASTX:Wheat
Start	1972	End	2458
GI	none	Score	261
Exons	1972..2349, 2015..2458, 2404..2454		

Seq. No. 27839  
Gene No. 57460  
Start 7923  
Name OJ000150\_06.0124.C26.o2.tc  
Start 2008  
GI none  
Exons 2008..2325

Seq. ID OJ000150\_06.0124.C26  
Strand -  
End 8308  
Method TBLASTX:Cress  
End 2325  
Score 180

Seq. No. 27839  
Gene No. 57460  
Start 7923  
Name OJ000150\_06.0124.C26.o5.tm  
Start 2153  
GI none  
Exons 2153..2443, 2155..2442

Seq. ID OJ000150\_06.0124.C26  
Strand -  
End 8308  
Method TBLASTX:Maize  
End 2443  
Score 185

Seq. No. 27839  
Gene No. 57460  
Start 7923  
Name OJ000150\_06.0124.C26.o7.tw  
Start 2569  
GI none  
Exons 2569..2736, 2624..2737, 2782..2991

Seq. ID OJ000150\_06.0124.C26  
Strand -  
End 8308  
Method TBLASTX:Wheat  
End 2991  
Score 69

Seq. No. 27839  
Gene No. 57460  
Start 7923  
Name OJ000150\_06.0124.C26.o7.tm  
Start 2674  
GI none  
Exons 2674..3027

Seq. ID OJ000150\_06.0124.C26  
Strand -  
End 8308  
Method TBLASTX:Maize  
End 3027  
Score 181

Seq. No. 27839  
Gene No. 57460  
Start 7923  
Name OJ000150\_06.0124.C26.o6.tw  
Start 3310  
GI none  
Exons 3310..3660, 3467..3661

Seq. ID OJ000150\_06.0124.C26  
Strand -  
End 8308  
Method TBLASTX:Wheat  
End 3661  
Score 107

Seq. No. 27839  
Gene No. 57460  
Start 7923  
Name OJ000150\_06.0124.C26.o6.tm  
Start 3355  
GI none  
Exons 3355..3660, 3530..3646

Seq. ID OJ000150\_06.0124.C26  
Strand -  
End 8308  
Method TBLASTX:Maize  
End 3660  
Score 85

Seq. No. 27839  
Gene No. 57460  
Start 7923  
Name OJ000150\_06.0124.C26.o8.tw  
Start 3697  
GI none  
Exons 3697..3846, 3697..3894, 3698..3892, 4005..4037

Seq. ID OJ000150\_06.0124.C26  
Strand -  
End 8308  
Method TBLASTX:Wheat  
End 4037  
Score 65

Seq. No. 27839

Seq. ID OJ000150\_06.0124.C26

Gene No.	57460	Strand	-
Start	7923	End	8308
Name	OJ000150_06.0124.C26.o4.gp	Method	AAT/GAP
Start	7923	End	8308
GI	uC-osflcyp033a04b1	Score	637
Exons	7923..8308		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	27840	Seq. ID	OJ000150_06.0124.C28
Gene No.	57461	Strand	+
Start	79	End	453
Name	OJ000150_06.0124.C28.o1.gs	Method	GENSCAN
Start	79	End	453
GI	none	Score	.48
Exons	79..198, 331..453		

Seq. No.	27841	Seq. ID	OJ000150_06.0124.C29
Gene No.	57462	Strand	+
Start	1	End	388
Name	OJ000150_06.0124.C29.o1.np	Method	AAT/NAP
Start	1	End	388
GI	4680179	Score	533
Exons	1..388		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	27841	Seq. ID	OJ000150_06.0124.C29
Gene No.	57462	Strand	+
Start	1	End	388
Name	OJ000150_06.0124.C29.o1.tw	Method	TBLASTX:Wheat
Start	40	End	347
GI	none	Score	124
Exons	40..114, 41..118, 122..319, 129..347, 130..318, 224..343		

Seq. No.	27841	Seq. ID	OJ000150_06.0124.C29
Gene No.	57462	Strand	+
Start	1	End	388
Name	OJ000150_06.0124.C29.o1.gs	Method	GENSCAN
Start	53	End	353
GI	none	Score	.98
Exons	53..353		

Seq. No.	27841	Seq. ID	OJ000150_06.0124.C29
Gene No.	57462	Strand	+
Start	1	End	388
Name	OJ000150_06.0124.C29.o1.tm	Method	TBLASTX:Maize
Start	53	End	361
GI	none	Score	229
Exons	53..361, 55..345		

Seq. No.	27841	Seq. ID	OJ000150_06.0124.C29
Gene No.	57462	Strand	+
Start	1	End	388
Name	OJ000150_06.0124.C29.o1.ts	Method	TBLASTX:Soybean
Start	185	End	382
GI	none	Score	57
Exons	185..217, 187..216, 221..382, 221..364, 289..366		

Seq. No.	27842	Seq. ID	OJ000150_06.0124.C30
Gene No.	57463	Strand	-
Start	119	End	556
Name	OJ000150_06.0124.C30.ol.tc	Method	TBLASTX:Cress
Start	118	End	556
GI	none	Score	189
Exons	118..303, 122..277, 374..430, 375..431, 512..556, 513..554		

Seq. No.	27842	Seq. ID	OJ000150_06.0124.C30
Gene No.	57463	Strand	-
Start	119	End	556
Name	OJ000150_06.0124.C30.ol.ts	Method	TBLASTX:Soybean
Start	118	End	556
GI	none	Score	201
Exons	118..303, 122..277, 221..277, 345..431, 374..427, 506..556, 507..554		

Seq. No.	27842	Seq. ID	OJ000150_06.0124.C30
Gene No.	57463	Strand	-
Start	119	End	556
Name	OJ000150_06.0124.C30.ol.gs	Method	GENSCAN
Start	119	End	469
GI	none	Score	.63
Exons	119..272, 373..469		

Seq. No.	27842	Seq. ID	OJ000150_06.0124.C30
Gene No.	57463	Strand	-
Start	119	End	556
Name	OJ000150_06.0124.C30.ol.gp	Method	AAT/GAP
Start	119	End	266
GI	uC-osroM202032e08b1	Score	268
Exons	119..266		
GI Descrip.	'4490732/emb CAB38935.1  2.0e-87 (AL035709) phosphoenolpyruvate carboxykinase (ATP)-like protein [Arabidopsis thaliana]'		

Seq. No.	27842	Seq. ID	OJ000150_06.0124.C30
Gene No.	57463	Strand	-
Start	119	End	556
Name	OJ000150_06.0124.C30.ol.np	Method	AAT/NAP
Start	119	End	556
GI	6707571	Score	320
Exons	119..272, 373..469, 497..556		
GI Descrip.	(AF212109) ATP-dependent phosphoenolpyruvate carboxykinase [Medicago sativa]		

Seq. No.	27843	Seq. ID	OJ000150_06.0124.C31
Gene No.	57464	Strand	+
Start	413	End	537
Name	OJ000150_06.0124.C31.ol.gp	Method	AAT/GAP
Start	413	End	537
GI	4878407	Score	182
Exons	413..537		
GI Descrip.	6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	27844	Seq. ID	OJ000150_06.0124.C32
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Gene No.	57465	Strand	-
Start	1	End	541
Name	OJ000150_06.0124.C32.o1.np	Method	AAT/NAP
Start	1	End	514
GI	4220532	Score	130
Exons	1..84, 147..264, 366..514		
GI Descrip.	(AL035356) putative protein [Arabidopsis thaliana]		
Seq. No.	27844	Seq. ID	OJ000150_06.0124.C32
Gene No.	57465	Strand	-
Start	1	End	541
Name	OJ000150_06.0124.C32.o1.gs	Method	GENSCAN
Start	152	End	532
GI	none	Score	.94
Exons	152..256, 370..532		
Seq. No.	27844	Seq. ID	OJ000150_06.0124.C32
Gene No.	57465	Strand	-
Start	1	End	541
Name	OJ000150_06.0124.C32.o1.tm	Method	TBLASTX;Maize
Start	369	End	541
GI	none	Score	138
Exons	369..527, 371..538, 398..541		
Seq. No.	27845	Seq. ID	OJ000150_06.0124.C34
Gene No.	57466	Strand	+
Start	569	End	1126
Name	OJ000150_06.0124.C34.o1.gs	Method	GENSCAN
Start	569	End	1126
GI	none	Score	.91
Exons	569..707, 1056..1126		
Seq. No.	27845	Seq. ID	OJ000150_06.0124.C34
Gene No.	57467	Strand	+
Start	1056	End	1177
Name	OJ000150_06.0124.C34.o1.np	Method	AAT/NAP
Start	1056	End	1177
GI	4680183	Score	69
Exons	1056..1177		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	27846	Seq. ID	OJ000150_06.0124.C35
Gene No.	57468	Strand	-
Start	2956	End	13162
Name	OJ000150_06.0124.C35.o2.np	Method	AAT/NAP
Start	2769	End	13162
GI	4220532	Score	789
Exons	2769..2942, 4202..4347, 4536..4663, 5461..5669, 6085..6168, 6250..6319, 6950..6999, 7085..7366, 8272..8490, 8567..8840, 9307..9391, 9778..9816, 10202..10279, 10440..10552, 10654..10802, 12283..12360, 13091..13162		
GI Descrip.	(AL035356) putative protein [Arabidopsis thaliana]		
Seq. No.	27846	Seq. ID	OJ000150_06.0124.C35
Gene No.	57468	Strand	-
Start	2956	End	13162
Name	OJ000150_06.0124.C35.o2.gs	Method	GENSCAN

Start	2956	End	10820
GI	none	Score	.76
Exons	2956..3092, 4267..4345, 4522..4653, 5310..5382, 5503..5669, 6085..6168, 6250..6310, 6950..6999, 7085..7366, 8272..8490, 8555..8840, 9307..9391, 9778..9847, 9940..9995, 10202..10279, 10440..10544, 10658..10820		

Seq. No.	27846	Seq. ID	OJ000150_06.0124.C35
Gene No.	57468	Strand	-
Start	2956	End	13162
Name	OJ000150_06.0124.C35.o1.tm	Method	TBLASTX:Maize
Start	5502	End	5870
GI	none	Score	39
Exons	5502..5537, 5504..5539, 5529..5672, 5533..5673, 5534..5629, 5535..5672, 5753..5869, 5754..5870, 5755..5868		

Seq. No.	27846	Seq. ID	OJ000150_06.0124.C35
Gene No.	57468	Strand	-
Start	2956	End	13162
Name	OJ000150_06.0124.C35.o1.gp	Method	AAT/GAP
Start	6256	End	8366
GI	uC-osflcyp125e02b1	Score	888
Exons	6256..6310, 6950..6999, 7085..7366, 8272..8366		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	27846	Seq. ID	OJ000150_06.0124.C35
Gene No.	57468	Strand	-
Start	2956	End	13162
Name	OJ000150_06.0124.C35.o2.tm	Method	TBLASTX:Maize
Start	9803	End	11144
GI	none	Score	86
Exons	9803..9880, 9803..9844, 10657..10815, 10659..10826, 10686..10829, 11026..11082, 11031..11138, 11031..11144		

Seq. No.	27846	Seq. ID	OJ000150_06.0124.C35
Gene No.	57468	Strand	-
Start	2956	End	13162
Name	OJ000150_06.0124.C35.o3.gs	Method	GENSCAN
Start	11436	End	11650
GI	none	Score	.49
Exons	11436..11650		

Seq. No.	27847	Seq. ID	OJ000150_06.0124.C36
Gene No.	57469	Strand	-
Start	91	End	5401
Name	OJ000150_06.0124.C36.o1.gs	Method	GENSCAN
Start	91	End	5401
GI	none	Score	.5
Exons	91..127, 522..647, 2386..2504, 2563..2703, 3696..3779, 3862..3918, 4209..4360, 5111..5190, 5328..5401		

Seq. No.	27847	Seq. ID	OJ000150_06.0124.C36
Gene No.	57469	Strand	-
Start	91	End	5401
Name	OJ000150_06.0124.C36.o1.tc	Method	TBLASTX:Cress
Start	4192	End	5399

GI	none	Score	139
Exons	4192..4359, 4193..4357, 5093..5182, 5110..5187, 5331..5399		

Seq. No.	27848	Seq. ID	OJ000150_06.0124.C37
Gene No.	57470	Strand	+
Start	323	End	3940
Name	OJ000150_06.0124.C37.o1.gs	Method	GENSCAN
Start	323	End	3149
GI	none	Score	.83
Exons	323..534, 878..977, 1579..1769, 2225..2297, 2679..2735, 2797..2951, 3092..3149		

Seq. No.	27848	Seq. ID	OJ000150_06.0124.C37
Gene No.	57470	Strand	+
Start	323	End	3940
Name	OJ000150_06.0124.C37.o1.np	Method	AAT/NAP
Start	1584	End	2440
GI	4680186	Score	195
Exons	1584..1809, 2363..2440		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	27848	Seq. ID	OJ000150_06.0124.C37
Gene No.	57470	Strand	+
Start	323	End	3940
Name	OJ000150_06.0124.C37.o2.np	Method	AAT/NAP
Start	2290	End	3940
GI	6907088	Score	226
Exons	2290..2438, 2669..2892, 3518..3940		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	27848	Seq. ID	OJ000150_06.0124.C37
Gene No.	57471	Strand	-
Start	3733	End	3909
Name	OJ000150_06.0124.C37.o2.gs	Method	GENSCAN
Start	3733	End	3909
GI	none	Score	.84
Exons	3733..3909		

Seq. No.	27849	Seq. ID	OJ000150_06.0124.C38
Gene No.	57472	Strand	+
Start	1	End	511
Name	OJ000150_06.0124.C38.o2.np	Method	AAT/NAP
Start	1	End	511
GI	4680183	Score	117
Exons	1..44, 422..511		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	27849	Seq. ID	OJ000150_06.0124.C38
Gene No.	57473	Strand	-
Start	1	End	389
Name	OJ000150_06.0124.C38.o1.np	Method	AAT/NAP
Start	1	End	389
GI	6721561	Score	82
Exons	1..39, 303..389		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976)		

corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	27850	Seq. ID	OJ000150_06.0124.C41
Gene No.	57474	Strand	-
Start	165	End	335
Name	OJ000150_06.0124.C41.o1.np	Method	AAT/NAP
Start	165	End	335
GI	4680183	Score	63
Exons	165..335		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	27851	Seq. ID	OJ000150_06.0124.C43
Gene No.	57475	Strand	+
Start	1	End	809
Name	OJ000150_06.0124.C43.o1.np	Method	AAT/NAP
Start	1	End	809
GI	4455213	Score	219
Exons	1..61, 206..293, 365..402, 699..809		
GI Descrip.	(AL035440) glutamine amidotransferase/cyclase [Arabidopsis thaliana]		

Seq. No.	27851	Seq. ID	OJ000150_06.0124.C43
Gene No.	57475	Strand	+
Start	1	End	809
Name	OJ000150_06.0124.C43.o1.gp	Method	AAT/GAP
Start	206	End	809
GI	18249_1.R1084	Score	357
Exons	206..293, 365..402, 699..809		
GI Descrip.	'399942/sp Q02028 HS7S PEA 4.0e-48 CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR >gi_421881_pir_S32818 heat shock protein, 70K, chloroplast - garden pea >gi_169023 (L03299) 70 kDa heat shock protein [Pisum sativum] >gi_871515_emb_CAA49147_ (X69213) Psst70 (stress 70 protein) [Pisum sativum]'		

Seq. No.	27852	Seq. ID	OJ000150_06.0124.C46
Gene No.	57476	Strand	+
Start	168	End	648
Name	OJ000150_06.0124.C46.o1.gs	Method	GENSCAN
Start	168	End	648
GI	none	Score	.87
Exons	168..222, 527..648		

Seq. No.	27853	Seq. ID	OJ000150_06.0124.C47
Gene No.	57477	Strand	+
Start	1	End	780
Name	OJ000150_06.0124.C47.o1.gp	Method	AAT/GAP
Start	1	End	780
GI	5594_1.R1084	Score	1122
Exons	1..133, 218..386, 490..780		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	27853	Seq. ID	OJ000150_06.0124.C47
Gene No.	57477	Strand	+
Start	1	End	780

Name	OJ000150_06.0124.C47.ol.np	Method	AAT/NAP
Start	1	End	630
GI	1346771	Score	612
Exons	1..133, 218..386, 490..630		
GI Descrip.	PHOSPHOENOLPYRUVATE CARBOXYKINASE [ATP] gi 1086117 pir  S52988 phosphoenolpyruvate carboxykinase (PCK1) - Urochloa panicoides gi 607752 (U09241) phosphoenolpyruvate carboxykinase [Urochloa panicoides]		

Seq. No.	27853	Seq. ID	OJ000150_06.0124.C47
Gene No.	57477	Strand	+
Start	1	End	780
Name	OJ000150_06.0124.C47.ol.tc	Method	TBLASTX:Cress
Start	2	End	633
GI	none	Score	100
Exons	2..76, 3..122, 89..133, 90..137, 219..392, 221..382, 490..633, 495..629		

Seq. No.	27853	Seq. ID	OJ000150_06.0124.C47
Gene No.	57477	Strand	+
Start	1	End	780
Name	OJ000150_06.0124.C47.ol.ts	Method	TBLASTX:Soybean
Start	2	End	633
GI	none	Score	208
Exons	2..133, 3..137, 6..143, 185..385, 219..392, 490..633, 513..632		

Seq. No.	27853	Seq. ID	OJ000150_06.0124.C47
Gene No.	57477	Strand	+
Start	1	End	780
Name	OJ000150_06.0124.C47.ol.tm	Method	TBLASTX:Maize
Start	2	End	752
GI	none	Score	160
Exons	2..136, 2..136, 3..137, 185..400, 215..334, 216..404, 489..563, 490..633, 490..636, 491..643, 581..637, 735..752		

Seq. No.	27853	Seq. ID	OJ000150_06.0124.C47
Gene No.	57477	Strand	+
Start	1	End	780
Name	OJ000150_06.0124.C47.ol.gs	Method	GENSCAN
Start	36	End	633
GI	none	Score	.81
Exons	36..133, 218..386, 490..633		

Seq. No.	27854	Seq. ID	OJ000150_06.0124.C48
Gene No.	57478	Strand	+
Start	20	End	400
Name	OJ000150_06.0124.C48.ol.tm	Method	TBLASTX:Maize
Start	2	End	183
GI	none	Score	195
Exons	2..154, 14..181, 25..183		

Seq. No.	27854	Seq. ID	OJ000150_06.0124.C48
Gene No.	57478	Strand	+
Start	20	End	400
Name	OJ000150_06.0124.C48.ol.gs	Method	GENSCAN
Start	20	End	400
GI	none	Score	.97

Exons 20..182, 296..400

Seq. No.	27855	Seq. ID	OJ000150_06.0124.C50
Gene No.	57479	Strand	+
Start	98	End	360
Name	OJ000150_06.0124.C50.ol.gs	Method	GENSCAN
Start	98	End	360
GI	none	Score	.92
Exons	98..360		

Seq. No.	27856	Seq. ID	OJ000150_06.0124.C51
Gene No.	57480	Strand	-
Start	143	End	952
Name	OJ000150_06.0124.C51.ol.gs	Method	GENSCAN
Start	143	End	952
GI	none	Score	.47
Exons	143..274, 932..952		

Seq. No.	27857	Seq. ID	OJ000150_06.0124.C53
Gene No.	57481	Strand	+
Start	862	End	981
Name	OJ000150_06.0124.C53.ol.gp	Method	AAT/GAP
Start	862	End	981
GI	2355_1.R1084	Score	197
Exons	862..981		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	27857	Seq. ID	OJ000150_06.0124.C53
Gene No.	57482	Strand	-
Start	1	End	1327
Name	OJ000150_06.0124.C53.ol.np	Method	AAT/NAP
Start	1	End	1327
GI	6562266	Score	462
Exons	1..33, 853..1327		
GI Descrip.	(AL132980) putative protein [Arabidopsis thaliana]		

Seq. No.	27857	Seq. ID	OJ000150_06.0124.C53
Gene No.	57482	Strand	-
Start	1	End	1327
Name	OJ000150_06.0124.C53.ol.gs	Method	GENSCAN
Start	807	End	1306
GI	none	Score	.42
Exons	807..833, 952..1306		

Seq. No.	27857	Seq. ID	OJ000150_06.0124.C53
Gene No.	57482	Strand	-
Start	1	End	1327
Name	OJ000150_06.0124.C53.ol.tm	Method	TBLASTX:Maize
Start	855	End	1171
GI	none	Score	431
Exons	855..1169, 859..1170, 866..1171		

Seq. No.	27857	Seq. ID	OJ000150_06.0124.C53
Gene No.	57482	Strand	-
Start	1	End	1327
Name	OJ000150_06.0124.C53.ol.tw	Method	TBLASTX:Wheat

Start	864	End	1113
GI	none	Score	111
Exons	864..959, 871..1104, 874..1113		
Seq. No.	27857	Seq. ID	OJ000150_06.0124.C53
Gene No.	57482	Strand	-
Start	1	End	1327
Name	OJ000150_06.0124.C53.o1.ts	Method	TBLASTX:Soybean
Start	874	End	1321
GI	none	Score	113
Exons	874..1059, 875..1060, 875..1060, 1039..1320, 1051..1317, 1058..1321, 1070..1321		
Seq. No.	27857	Seq. ID	OJ000150_06.0124.C53
Gene No.	57482	Strand	-
Start	1	End	1327
Name	OJ000150_06.0124.C53.o2.gp	Method	AAT/GAP
Start	1114	End	1319
GI	9214_2.R1084	Score	355
Exons	1114..1319		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 2.0e-12 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	27857	Seq. ID	OJ000150_06.0124.C53
Gene No.	57482	Strand	-
Start	1	End	1327
Name	OJ000150_06.0124.C53.o2.tm	Method	TBLASTX:Maize
Start	1171	End	1327
GI	none	Score	192
Exons	1171..1326, 1172..1327, 1174..1317		
Seq. No.	27858	Seq. ID	OJ000150_06.0124.C56
Gene No.	57483	Strand	+
Start	238	End	432
Name	OJ000150_06.0124.C56.o1.gs	Method	GENSCAN
Start	238	End	432
GI	none	Score	.76
Exons	238..432		
Seq. No.	27859	Seq. ID	OJ000150_06.0124.C57
Gene No.	57484	Strand	+
Start	113	End	357
Name	OJ000150_06.0124.C57.o1.tm	Method	TBLASTX:Maize
Start	67	End	357
GI	none	Score	143
Exons	67..357, 82..345		
Seq. No.	27859	Seq. ID	OJ000150_06.0124.C57
Gene No.	57484	Strand	+
Start	113	End	357
Name	OJ000150_06.0124.C57.o1.gs	Method	GENSCAN
Start	113	End	306
GI	none	Score	.96
Exons	113..168, 207..306		
Seq. No.	27860	Seq. ID	OJ000150_06.0124.C58
Gene No.	57485	Strand	-

Start 325  
 Name OJ000150\_06.0124.C58.o1.gp  
 Start 325  
 GI none  
 Exons 325..458

End 458  
 Method AAT/GAP  
 End 458  
 Score 256

Seq. No. 27861  
 Gene No. 57486  
 Start 153  
 Name OJ000150\_06.0124.C59.o1.gs  
 Start 153  
 GI none  
 Exons 153..229, 258..337

Seq. ID OJ000150\_06.0124.C59  
 Strand +  
 End 337  
 Method GENSCAN  
 End 337  
 Score .83

Seq. No. 27862  
 Gene No. 57487  
 Start 206  
 Name OJ000150\_06.0124.C61.o1.gs  
 Start 206  
 GI none  
 Exons 206..272

Seq. ID OJ000150\_06.0124.C61  
 Strand +  
 End 272  
 Method GENSCAN  
 End 272  
 Score .6

Seq. No. 27863  
 Gene No. 57488  
 Start 1  
 Name OJ000150\_06.0124.C62.o1.np  
 Start 1  
 GI 4680179  
 Exons 1..767

Seq. ID OJ000150\_06.0124.C62  
 Strand +  
 End 767  
 Method AAT/NAP  
 End 767  
 Score 1048

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 27863  
 Gene No. 57488  
 Start 1  
 Name OJ000150\_06.0124.C62.o1.gs  
 Start 17  
 GI none  
 Exons 17..682

Seq. ID OJ000150\_06.0124.C62  
 Strand +  
 End 767  
 Method GENSCAN  
 End 682  
 Score .89

Seq. No. 27863  
 Gene No. 57488  
 Start 1  
 Name OJ000150\_06.0124.C62.o2.tw  
 Start 85  
 GI none  
 Exons 85..165, 86..169, 173..340, 180..308, 181..333, 275..343

Seq. ID OJ000150\_06.0124.C62  
 Strand +  
 End 767  
 Method TBLASTX:Wheat  
 End 343  
 Score 127

Seq. No. 27863  
 Gene No. 57488  
 Start 1  
 Name OJ000150\_06.0124.C62.o1.tm  
 Start 182  
 GI none  
 Exons 182..361, 190..336, 368..682, 508..561, 510..566, 589..639

Seq. ID OJ000150\_06.0124.C62  
 Strand +  
 End 767  
 Method TBLASTX:Maize  
 End 682  
 Score 167

Seq. No. 27863  
 Gene No. 57488

Seq. ID OJ000150\_06.0124.C62  
 Strand +



Start	1	End	767
Name	OJ000150_06.0124.C62.o1.ts	Method	TBLASTX:Soybean
Start	236	End	631
GI	none	Score	57
Exons	236..268, 238..267, 272..631, 274..312, 340..630		
Seq. No.	27863	Seq. ID	OJ000150_06.0124.C62
Gene No.	57488	Strand	+
Start	1	End	767
Name	OJ000150_06.0124.C62.o1.tw	Method	TBLASTX:Wheat
Start	344	End	712
GI	none	Score	462
Exons	344..712, 345..425, 346..711		
Seq. No.	27864	Seq. ID	OJ000150_06.0124.C63
Gene No.	57489	Strand	+
Start	312	End	366
Name	OJ000150_06.0124.C63.o1.gs	Method	GENSCAN
Start	312	End	366
GI	none	Score	.87
Exons	312..366		
Seq. No.	27865	Seq. ID	OJ000150_01.0124.C1
Gene No.	57490	Strand	+
Start	1292	End	2600
Name	OJ000150_01.0124.C1.o2.np	Method	AAT/NAP
Start	1292	End	2600
GI	5777617	Score	85
Exons	1292..1323, 2505..2600		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	27865	Seq. ID	OJ000150_01.0124.C1
Gene No.	57491	Strand	-
Start	1	End	2429
Name	OJ000150_01.0124.C1.o1.np	Method	AAT/NAP
Start	1	End	1403
GI	4680182	Score	188
Exons	1..42, 855..1403		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	27865	Seq. ID	OJ000150_01.0124.C1
Gene No.	57491	Strand	-
Start	1	End	2429
Name	OJ000150_01.0124.C1.o1.gs	Method	GENSCAN
Start	26	End	2429
GI	none	Score	.63
Exons	26..1105, 2397..2429		
Seq. No.	27865	Seq. ID	OJ000150_01.0124.C1
Gene No.	57491	Strand	-
Start	1	End	2429
Name	OJ000150_01.0124.C1.o1.tm	Method	TBLASTX:Maize
Start	878	End	1318
GI	none	Score	71
Exons	878..1183, 882..986, 1062..1142, 1196..1318		
Seq. No.	27865	Seq. ID	OJ000150_01.0124.C1

Gene No.	57491	Strand	-
Start	1	End	2429
Name	OJ000150_01.0124.C1.o1.ts	Method	TBLASTX:Soybean
Start	1056	End	1357
GI	none	Score	63
Exons	1056..1142, 1058..1141, 1196..1357		
Seq. No.	27865	Seq. ID	OJ000150_01.0124.C1
Gene No.	57491	Strand	-
Start	1	End	2429
Name	OJ000150_01.0124.C1.o1.tc	Method	TBLASTX:Cress
Start	1062	End	1372
GI	none	Score	77
Exons	1062..1145, 1064..1153, 1064..1144, 1086..1169, 1187..1372		
Seq. No.	27866	Seq. ID	OJ000150_01.0124.C2
Gene No.	57492	Strand	-
Start	133	End	236
Name	OJ000150_01.0124.C2.o1.np	Method	AAT/NAP
Start	133	End	236
GI	6721555	Score	85
Exons	133..236		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815080 dbj BAA90366.1  (AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	27866	Seq. ID	OJ000150_01.0124.C2
Gene No.	57493	Strand	-
Start	2333	End	2571
Name	OJ000150_01.0124.C2.o1.gs	Method	GENSCAN
Start	2333	End	2571
GI	none	Score	.59
Exons	2333..2571		
Seq. No.	27867	Seq. ID	OJ000150_01.0124.C3
Gene No.	57494	Strand	+
Start	965	End	1991
Name	OJ000150_01.0124.C3.o1.gs	Method	GENSCAN
Start	965	End	1991
GI	none	Score	.56
Exons	965..1347, 1778..1991		
Seq. No.	27868	Seq. ID	OJ000150_01.0124.C4
Gene No.	57495	Strand	+
Start	12675	End	13749
Name	OJ000150_01.0124.C4.o1.gp	Method	AAT/GAP
Start	12675	End	13749
GI	LIB3477-003-P1-K1-E9	Score	118
Exons	12675..12726, 13699..13749		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	27868	Seq. ID	OJ000150_01.0124.C4
Gene No.	57496	Strand	-
Start	2169	End	3384
Name	OJ000150_01.0124.C4.o2.gs	Method	GENSCAN

Start	2169	End	3384
GI	none	Score	.54
Exons	2169..2603, 2966..3082, 3211..3384		

Seq. No.	27868	Seq. ID	OJ000150_01.0124.C4
Gene No.	57497	Strand	-
Start	10623	End	15803
Name	OJ000150_01.0124.C4.o4.gs	Method	GENSCAN
Start	10623	End	15803
GI	none	Score	.68
Exons	10623..10964, 11198..11341, 11459..11509, 11700..11873, 12188..12283, 14333..14394, 15090..15481, 15644..15803		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57498	Strand	+
Start	3325	End	4921
Name	OJ000150_01.0124.C5.o2.gs	Method	GENSCAN
Start	3325	End	4921
GI	none	Score	.81
Exons	3325..3645, 4154..4921		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57499	Strand	+
Start	8596	End	10623
Name	OJ000150_01.0124.C5.o3.gs	Method	GENSCAN
Start	8596	End	10623
GI	none	Score	.76
Exons	8596..8739, 8868..9095, 9769..9863, 10101..10170, 10275..10389, 10562..10623		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57499	Strand	+
Start	8596	End	10623
Name	OJ000150_01.0124.C5.o3.np	Method	AAT/NAP
Start	8632	End	10397
GI	4309741	Score	430
Exons	8632..8739, 8868..8939, 9036..9095, 9769..9863, 10101..10170, 10275..10397		

GI Descrip. (AC006439) hypothetical protein [Arabidopsis thaliana]

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57500	Strand	+
Start	11053	End	14219
Name	OJ000150_01.0124.C5.o4.np	Method	AAT/NAP
Start	11053	End	14216
GI	1419090	Score	1238
Exons	11053..11120, 12335..12744, 13570..13876, 14064..14216		
GI Descrip.	(X94968) 37kDa chloroplast inner envelope membrane polypeptide precursor [Nicotiana tabacum]		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57500	Strand	+
Start	11053	End	14219
Name	OJ000150_01.0124.C5.o4.gs	Method	GENSCAN
Start	12482	End	14219
GI	none	Score	.95
Exons	12482..12744, 13570..13876, 14064..14219		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57501	Strand	-
Start	12216	End	34123
Name	OJ000150_01.0124.C5.o5.np	Method	AAT/NAP
Start	12216	End	20521
GI	4758106	Score	420
Exons	12216..12296, 15109..15528, 16189..16444, 17872..18158, 18332..18449, 19005..19122, 19237..19275, 19364..19388, 19656..19744, 20271..20325, 20441..20521		
GI Descrip.	Clk-associating RS-cyclophilin gi 1117968 (U40763) CARS-Cyp [Homo sapiens] gi 1770526 emb CAA68053  (X99717) SRcyp protein [Homo sapiens]		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57501	Strand	-
Start	12216	End	34123
Name	OJ000150_01.0124.C5.o5.gs	Method	GENSCAN
Start	15066	End	34123
GI	none	Score	.63
Exons	15066..15447, 15995..16075, 16156..16464, 16877..17021, 17685..17797, 17887..18214, 18295..18449, 19005..19122, 20271..20325, 20441..20539, 32665..32689, 34107..34123		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57501	Strand	-
Start	12216	End	34123
Name	OJ000150_01.0124.C5.o1.gp	Method	AAT/GAP
Start	15179	End	16184
GI	287063	Score	667
Exons	15179..15426, 15995..16075, 16156..16184		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57502	Strand	-
Start	35161	End	35522
Name	OJ000150_01.0124.C5.o4.gp	Method	AAT/GAP
Start	35161	End	35522
GI	none	Score	359
Exons	35161..35252, 35341..35522		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o4.tm	Method	TBLASTX:Maize
Start	3206	End	4519
GI	none	Score	42
Exons	3206..3238, 3219..3278, 3220..3282, 3304..3342, 3403..3609, 3403..3609, 3411..3611, 4229..4279, 4229..4270, 4268..4519, 4274..4510		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o5.tm	Method	TBLASTX:Maize
Start	4711	End	5092
GI	none	Score	230
Exons	4711..4920, 4712..4885, 4715..4921, 4717..4920, 5027..5092		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o1.tm	Method	TBLASTX:Maize
Start	12245	End	14483
GI	none	Score	64
Exons	12245..12298, 12250..12300, 12341..12742, 12364..12474, 12383..12733, 12583..12744, 13545..13865, 13549..13848, 13567..13872, 13568..13879, 13568..13894, 14063..14215, 14067..14222, 14249..14275, 14276..14323, 14397..14423, 14457..14483		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o1.tc	Method	TBLASTX:Cress
Start	12290	End	14329
GI	none	Score	490
Exons	12290..12742, 12355..12474, 12362..12739, 12598..12744, 13542..13730, 13567..13785, 13568..13786, 13778..13828, 13816..13872, 13820..13879, 14063..14098, 14067..14102, 14100..14225, 14102..14215, 14276..14329		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o1.ts	Method	TBLASTX:Soybean
Start	12338	End	14329
GI	none	Score	514
Exons	12338..12742, 12343..12474, 12347..12730, 12583..12744, 13567..13878, 13568..13879, 14055..14219, 14059..14214, 14060..14236, 14067..14219, 14276..14329		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o2.tm	Method	TBLASTX:Maize
Start	15058	End	19276
GI	none	Score	49
Exons	15058..15093, 15062..15130, 15092..15157, 15095..15157, 15116..15208, 15163..15213, 15225..15305, 15230..15298, 15347..15403, 15356..15406, 15403..15429, 15993..16076, 15994..16077, 15995..16078, 16147..16359, 16152..16352, 16153..16353, 16193..16381, 16357..16407, 16360..16410, 16387..16461, 16404..16466, 16842..16925, 16849..16929, 16851..16931, 16928..17035, 16943..17026, 17676..17717, 17699..17797, 17715..17750, 17879..18031, 17886..18032, 18068..18142, 18114..18215, 18277..18324, 18288..18323, 18311..18448, 18327..18449, 18330..18449, 19004..19123, 19005..19124, 19006..19125, 19014..19124, 19236..19268, 19241..19276		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o3.tc	Method	TBLASTX:Cress

Start	18329	End	20497
GI	none	Score	67
Exons	18329..18370, 18371..18448, 18372..18449, 19004..19123, 19005..19124, 19241..19291, 19362..19400, 20266..20310, 20438..20497		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o3.ts	Method	TBLASTX:Soybean
Start	18329	End	20325
GI	none	Score	91
Exons	18329..18448, 18330..18449, 19004..19123, 19005..19124, 19025..19129, 19241..19276, 19242..19277, 19359..19403, 19656..19715, 20266..20325		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o6.np	Method	AAT/NAP
Start	37840	End	40028
GI	5262214	Score	1524
Exons	37840..40028		
GI Descrip.	(AL080254) putative protein [Arabidopsis thaliana]		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o6.gs	Method	GENSCAN
Start	37845	End	40028
GI	none	Score	1
Exons	37845..40028		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o2.ts	Method	TBLASTX:Soybean
Start	37974	End	39362
GI	none	Score	156
Exons	37974..38174, 38220..38495, 38631..39251, 38661..39149, 38673..39038, 38700..39353, 38829..39362, 39105..39353, 39129..39362		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o6.tm	Method	TBLASTX:Maize
Start	38217	End	39359
GI	none	Score	222
Exons	38217..38408, 38640..39182, 38688..39359		

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o2.tc	Method	TBLASTX:Cress
Start	38223	End	39353
GI	none	Score	200

Exons 38223..38405, 38757..39275, 38802..39353

Seq. No.	27869	Seq. ID	OJ000150_01.0124.C5
Gene No.	57503	Strand	-
Start	37845	End	40028
Name	OJ000150_01.0124.C5.o3.tm	Method	TBLASTX:Maize
Start	39456	End	39978
GI	none	Score	188
Exons	39456..39587, 39457..39597, 39472..39597, 39633..39743, 39685..39708, 39900..39971, 39901..39978		

Seq. No.	27870	Seq. ID	OJ000150_01.0124.C6
Gene No.	57504	Strand	+
Start	212	End	1023
Name	OJ000150_01.0124.C6.o1.tm	Method	TBLASTX:Maize
Start	169	End	641
GI	none	Score	145
Exons	169..291, 176..292, 439..555, 496..564, 518..565, 548..622, 550..630, 578..631, 579..641		

Seq. No.	27870	Seq. ID	OJ000150_01.0124.C6
Gene No.	57504	Strand	+
Start	212	End	1023
Name	OJ000150_01.0124.C6.o1.ts	Method	TBLASTX:Soybean
Start	211	End	641
GI	none	Score	128
Exons	211..291, 212..292, 436..555, 518..562, 519..560, 555..629, 557..619, 578..631, 579..641		

Seq. No.	27870	Seq. ID	OJ000150_01.0124.C6
Gene No.	57504	Strand	+
Start	212	End	1023
Name	OJ000150_01.0124.C6.o1.np	Method	AAT/NAP
Start	212	End	1023
GI	4506753	Score	252
Exons	212..292, 439..642, 931..1023		
GI Descrip.	TATA binding protein interacting protein 49 kDa gi 3132308 dbj BAA28169  (AB012122) TIP49 [Homo sapiens] gi 3243035 (AF070735) RuvB-like protein RUVBL1 [Homo sapiens] gi 3892584 emb CAA08986  (AJ010058) Nuclear matrix protein NMP238 [Homo sapiens] gi 4151525 (AF099084) Pontin52 [Homo sapiens] gi 5327000 emb CAB46271.1  (Y18418) erythrocyte cytosolic protein of 54 kDa,		

Seq. No.	27870	Seq. ID	OJ000150_01.0124.C6
Gene No.	57504	Strand	+
Start	212	End	1023
Name	OJ000150_01.0124.C6.o1.tc	Method	TBLASTX:Cress
Start	212	End	641
GI	none	Score	119
Exons	212..292, 217..291, 436..555, 578..631, 579..641		

Seq. No.	27871	Seq. ID	OJ000150_01.0124.C9
Gene No.	57505	Strand	+
Start	552	End	641
Name	OJ000150_01.0124.C9.o1.gs	Method	GENSCAN
Start	552	End	641

GI	none	Score	.66
Exons	552..641		
Seq. No.	27872	Seq. ID	OJ000150_01.0124.C10
Gene No.	57506	Strand	+
Start	59	End	518
Name	OJ000150_01.0124.C10.ol.gs	Method	GENSCAN
Start	59	End	518
GI	none	Score	.4
Exons	59..75, 378..518		

Seq. No.	27873	Seq. ID	OJ000150_01.0124.C12
Gene No.	57507	Strand	+
Start	1	End	737
Name	OJ000150_01.0124.C12.ol.gp	Method	AAT/GAP
Start	1	End	674
GI	uC-osflm202102f05b1	Score	496
Exons	1..116, 198..251, 341..403, 486..535, 641..674		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	27873	Seq. ID	OJ000150_01.0124.C12
Gene No.	57507	Strand	+
Start	1	End	737
Name	OJ000150_01.0124.C12.ol.np	Method	AAT/NAP
Start	1	End	737
GI	6630695	Score	231
Exons	1..116, 198..256, 346..403, 486..535, 641..737		
GI Descrip.	(AP000969) ESTs C97915(C0113), C26087(C11614) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27873	Seq. ID	OJ000150_01.0124.C12
Gene No.	57507	Strand	+
Start	1	End	737
Name	OJ000150_01.0124.C12.ol.tm	Method	TBLASTX:Maize
Start	11	End	677
GI	none	Score	116
Exons	11..115, 15..116, 198..257, 344..403, 349..402, 364..420, 485..535, 486..539, 597..677, 638..673		

Seq. No.	27873	Seq. ID	OJ000150_01.0124.C12
Gene No.	57507	Strand	+
Start	1	End	737
Name	OJ000150_01.0124.C12.ol.ts	Method	TBLASTX:Soybean
Start	15	End	566
GI	none	Score	142
Exons	15..116, 23..109, 32..121, 194..256, 198..272, 344..403, 486..566		

Seq. No.	27873	Seq. ID	OJ000150_01.0124.C12
Gene No.	57507	Strand	+
Start	1	End	737
Name	OJ000150_01.0124.C12.ol.gs	Method	GENSCAN
Start	198	End	403
GI	none	Score	.65
Exons	198..251, 341..403		



Seq. No. 27874  
 Gene No. 57508  
 Start 102  
 Name OJ000150\_01.0124.C15.o1.gs  
 Start 102  
 GI none  
 Exons 102..170

Seq. ID OJ000150\_01.0124.C15  
 Strand +  
 End 170  
 Method GENSCAN  
 End 170  
 Score .69

Seq. No. 27875  
 Gene No. 57509  
 Start 362  
 Name OJ000150\_01.0124.C19.o1.gs  
 Start 362  
 GI none  
 Exons 362..371, 487..546

Seq. ID OJ000150\_01.0124.C19  
 Strand +  
 End 546  
 Method GENSCAN  
 End 546  
 Score .7

Seq. No. 27875  
 Gene No. 57510  
 Start 441  
 Name OJ000150\_01.0124.C19.o1.tm  
 Start 174  
 GI none  
 Exons 174..200, 234..260, 334..381, 442..594

Seq. ID OJ000150\_01.0124.C19  
 Strand -  
 End 614  
 Method TBLASTX:Maize  
 End 600  
 Score 159  
 382..408, 435..599, 436..600,

Seq. No. 27875  
 Gene No. 57510  
 Start 441  
 Name OJ000150\_01.0124.C19.o1.tc  
 Start 325  
 GI none  
 Exons 325..384, 328..381, 329..388, 559..594

Seq. ID OJ000150\_01.0124.C19  
 Strand -  
 End 614  
 Method TBLASTX:Cress  
 End 599  
 Score 53  
 432..557, 442..555, 555..599,

Seq. No. 27875  
 Gene No. 57510  
 Start 441  
 Name OJ000150\_01.0124.C19.o1.ts  
 Start 328  
 GI none  
 Exons 328..381, 421..597, 438..602, 438..599

Seq. ID OJ000150\_01.0124.C19  
 Strand -  
 End 614  
 Method TBLASTX:Soybean  
 End 602  
 Score 152

Seq. No. 27875  
 Gene No. 57510  
 Start 441  
 Name OJ000150\_01.0124.C19.o1.np  
 Start 441  
 GI 728630  
 Exons 441..614  
 GI Descrip. (X85103) orf [Oryza sativa]

Seq. ID OJ000150\_01.0124.C19  
 Strand -  
 End 614  
 Method AAT/NAP  
 End 614  
 Score 236

Seq. No. 27876  
 Gene No. 57511  
 Start 361  
 Name OJ000150\_01.0124.C20.o1.gp  
 Start 361

Seq. ID OJ000150\_01.0124.C20  
 Strand -  
 End 670  
 Method AAT/GAP  
 End 670

GI 7606\_1.R1084 Score 582  
 Exons 361..670  
 GI Descrip. '4887131/gb|AAD32206.1|AF134732\_1 1.0e-141 (AF134732) 60S  
 ribosomal protein L1 [Prunus armeniaca]'

Seq. No. 27877 Seq. ID OJ000150\_01.0124.C21  
 Gene No. 57512 Strand +  
 Start 142 End 399  
 Name OJ000150\_01.0124.C21.o1.gp Method AAT/GAP  
 Start 142 End 399  
 GI 287063 Score 472  
 Exons 142..399

Seq. No. 27878 Seq. ID OJ000150\_01.0124.C22  
 Gene No. 57513 Strand +  
 Start 194 End 319  
 Name OJ000150\_01.0124.C22.o1.gs Method GENSCAN  
 Start 194 End 319  
 GI none Score .87  
 Exons 194..319

Seq. No. 27879 Seq. ID OJ000150\_01.0124.C23  
 Gene No. 57514 Strand +  
 Start 1 End 101  
 Name OJ000150\_01.0124.C23.o1.gp Method AAT/GAP  
 Start 1 End 101  
 GI none Score 190  
 Exons 1..101

Seq. No. 27879 Seq. ID OJ000150\_01.0124.C23  
 Gene No. 57515 Strand +  
 Start 1621 End 3054  
 Name OJ000150\_01.0124.C23.o1.gs Method GENSCAN  
 Start 1621 End 3054  
 GI none Score .67  
 Exons 1621..1679, 2055..2116, 2935..3054

Seq. No. 27879 Seq. ID OJ000150\_01.0124.C23  
 Gene No. 57516 Strand +  
 Start 5644 End 11123  
 Name OJ000150\_01.0124.C23.o2.gp Method AAT/GAP  
 Start 5306 End 6754  
 GI none Score 973  
 Exons 5306..5747, 6675..6754

Seq. No. 27879 Seq. ID OJ000150\_01.0124.C23  
 Gene No. 57516 Strand +  
 Start 5644 End 11123  
 Name OJ000150\_01.0124.C23.o2.gs Method GENSCAN  
 Start 5644 End 11123  
 GI none Score .78  
 Exons 5644..5747, 5847..5935, 7194..7311, 7404..7461, 7541..7605,  
 7791..7851, 8188..8289, 8515..8580, 8786..8953, 9050..9307,  
 9799..10011, 10613..10750, 10971..11123

Seq. No. 27879 Seq. ID OJ000150\_01.0124.C23  
 Gene No. 57516 Strand +

Start	5644	End	11123
Name	OJ000150_01.0124.C23.o1.np	Method	AAT/NAP
Start	5751	End	8890
GI	6598487	Score	433
Exons	5751..5789, 6667..6777, 6907..6976, 7062..7100, 7194..7311, 7404..7464, 8870..8890		
GI Descrip.	(AC005770) putative guanylate binding protein [Arabidopsis thaliana]		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57516	Strand	+
Start	5644	End	11123
Name	OJ000150_01.0124.C23.o3.gp	Method	AAT/GAP
Start	7158	End	7527
GI	42393_1.R1084	Score	276
Exons	7158..7311, 7404..7460, 7503..7527		
GI Descrip.	'4585903/gb AAD25565.1 AC007133_7 9.0e-21 (AC007133) putative guanylate binding protein [Arabidopsis thaliana]'		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o2.tm	Method	TBLASTX:Maize
Start	7082	End	7605
GI	none	Score	39
Exons	7082..7105, 7190..7231, 7229..7312, 7242..7316, 7243..7311, 7261..7320, 7262..7321, 7290..7322, 7401..7463, 7402..7464, 7402..7467, 7541..7603, 7543..7605		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o1.tm	Method	TBLASTX:Maize
Start	7788	End	11060
GI	none	Score	106
Exons	7788..7850, 7791..7853, 8229..8291, 8230..8298, 8232..8294, 8397..8429, 8407..8442, 8512..8571, 8514..8573, 8514..8576, 8515..8580, 8783..8959, 8783..8944, 8863..8952, 9047..9310, 9048..9308, 9050..9310, 9799..10014, 9806..10009, 9807..10010, 10605..10670, 10606..10884, 10607..10885, 10607..10909, 10954..11052, 10954..11031, 10977..11060		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o1.tc	Method	TBLASTX:Cress
Start	8514	End	9175
GI	none	Score	100
Exons	8514..8576, 8515..8580, 8783..8929, 8894..8959, 9047..9172, 9048..9173, 9049..9174, 9050..9175		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o1.ts	Method	TBLASTX:Soybean
Start	8912	End	9274
GI	none	Score	63

Exons 8912..8959, 8914..8952, 9047..9157, 9048..9179, 9049..9174, 9050..9274, 9216..9254

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o1.tw	Method	TBLASTX:Wheat
Start	9073	End	9972
GI	none	Score	291
Exons	9073..9183, 9074..9310, 9076..9312, 9077..9310, 9792..9971, 9799..9972, 9807..9971		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o2.tc	Method	TBLASTX:Cress
Start	9913	End	10767
GI	none	Score	111
Exons	9913..10014, 10589..10765, 10612..10767		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o4.gp	Method	AAT/GAP
Start	11446	End	12988
GI	none	Score	1301
Exons	11446..11846, 12702..12988		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o3.gs	Method	GENSCAN
Start	11742	End	13440
GI	none	Score	.82
Exons	11742..11846, 12082..12104, 12235..12376, 12614..12637, 12778..13019, 13258..13440		

Seq. No.	27879	Seq. ID	OJ000150_01.0124.C23
Gene No.	57517	Strand	-
Start	11742	End	13440
Name	OJ000150_01.0124.C23.o3.tm	Method	TBLASTX:Maize
Start	12702	End	12831
GI	none	Score	178
Exons	12702..12830, 12703..12831		

Seq. No.	27880	Seq. ID	OJ000150_01.0124.C24
Gene No.	57518	Strand	-
Start	1398	End	4068
Name	OJ000150_01.0124.C24.o1.gs	Method	GENSCAN
Start	1398	End	4030
GI	none	Score	.98
Exons	1398..1781, 2322..2447, 2537..2612, 3229..3436, 3598..3691, 4013..4030		

Seq. No.	27880	Seq. ID	OJ000150_01.0124.C24
Gene No.	57518	Strand	-
Start	1398	End	4068

Name	OJ000150_01.0124.C24.o1.np	Method	AAT/NAP
Start	1455	End	4068
GI	2130145	Score	389
Exons	1455..1781, 2322..2447, 2537..2612, 3229..3436, 4034..4068		
GI Descrip.	seed storage protein opaque-2 - maize gi 1144536 (U35063) opaque-2 heterodimerizing protein 1b [Zea mays]		

Seq. No.	27880	Seq. ID	OJ000150_01.0124.C24
Gene No.	57518	Strand	-
Start	1398	End	4068
Name	OJ000150_01.0124.C24.o1.tm	Method	TBLASTX:Maize
Start	2319	End	3453
GI	none	Score	116
Exons	2319..2450, 2319..2450, 2533..2613, 2535..2615, 2536..2613, 3254..3307, 3264..3308, 3325..3453, 3336..3440		

Seq. No.	27881	Seq. ID	OJ000150_01.0124.C25
Gene No.	57519	Strand	-
Start	1	End	1312
Name	OJ000150_01.0124.C25.o1.np	Method	AAT/NAP
Start	1	End	1312
GI	1783305	Score	215
Exons	1..29, 874..1102, 1145..1312		
GI Descrip.	(D78609) bZIP protein [Oryza sativa]		

Seq. No.	27881	Seq. ID	OJ000150_01.0124.C25
Gene No.	57519	Strand	-
Start	1	End	1312
Name	OJ000150_01.0124.C25.o1.gs	Method	GENSCAN
Start	890	End	1312
GI	none	Score	.78
Exons	890..1312		

Seq. No.	27882	Seq. ID	OJ000150_01.0124.C26
Gene No.	57520	Strand	+
Start	287	End	376
Name	OJ000150_01.0124.C26.o1.gs	Method	GENSCAN
Start	287	End	376
GI	none	Score	.91
Exons	287..376		

Seq. No.	27882	Seq. ID	OJ000150_01.0124.C26
Gene No.	57521	Strand	+
Start	1398	End	1813
Name	OJ000150_01.0124.C26.o1.gp	Method	AAT/GAP
Start	1398	End	1813
GI	2311472	Score	742
Exons	1398..1813		

Seq. No.	27882	Seq. ID	OJ000150_01.0124.C26
Gene No.	57522	Strand	-
Start	1687	End	2491
Name	OJ000150_01.0124.C26.o1.tm	Method	TBLASTX:Maize
Start	1500	End	2170
GI	none	Score	41
Exons	1500..1580, 1523..1585, 1644..1823, 1646..1822, 1682..1825, 1913..1975, 1917..1976, 2069..2158, 2069..2170		

Seq. No.	27882	Seq. ID	OJ000150_01.0124.C26
Gene No.	57522	Strand	-
Start	1687	End	2491
Name	OJ000150_01.0124.C26.o1.ts	Method	TBLASTX:Soybean
Start	1682	End	2173
GI	none	Score	113
Exons	1682..1828, 1747..1824, 1913..1972, 1914..1973, 2072..2173, 2076..2126		

Seq. No.	27882	Seq. ID	OJ000150_01.0124.C26
Gene No.	57522	Strand	-
Start	1687	End	2491
Name	OJ000150_01.0124.C26.o2.gs	Method	GENSCAN
Start	1687	End	2182
GI	none	Score	.87
Exons	1687..1821, 1916..1975, 2072..2182		

Seq. No.	27882	Seq. ID	OJ000150_01.0124.C26
Gene No.	57522	Strand	-
Start	1687	End	2491
Name	OJ000150_01.0124.C26.o1.np	Method	AAT/NAP
Start	1690	End	2491
GI	2129755	Score	292
Exons	1690..1821, 1916..1975, 2072..2149, 2396..2491		
GI Descrip.	tryptophan synthase (EC 4.2.1.20) alpha chain - Arabidopsis thaliana gi 619753 (U18993) tryptophan synthase alpha chain [Arabidopsis thaliana] gi 1585768 prf 2201482A Trp synthase:SUBUNIT=alpha [Arabidopsis thaliana]		

Seq. No.	27883	Seq. ID	OJ000150_01.0124.C29
Gene No.	57523	Strand	+
Start	1	End	741
Name	OJ000150_01.0124.C29.o1.gp	Method	AAT/GAP
Start	1	End	503
GI	uC-osflm202102f05b1	Score	272
Exons	1..79, 412..503		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	27883	Seq. ID	OJ000150_01.0124.C29
Gene No.	57523	Strand	+
Start	1	End	741
Name	OJ000150_01.0124.C29.o1.np	Method	AAT/NAP
Start	1	End	741
GI	6630695	Score	129
Exons	1..79, 412..741		
GI Descrip.	(AP000969) ESTs C97915(C0113), C26087(C11614) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27883	Seq. ID	OJ000150_01.0124.C29
Gene No.	57523	Strand	+
Start	1	End	741
Name	OJ000150_01.0124.C29.o1.gs	Method	GENSCAN
Start	68	End	612
GI	none	Score	.55

Exons 68..79, 412..612

Seq. No.	27884	Seq. ID	OJ000150_01.0124.C31
Gene No.	57524	Strand	+
Start	2170	End	4748
Name	OJ000150_01.0124.C31.o1.gp	Method	AAT/GAP
Start	2170	End	4748
GI	7606_1.R1084	Score	3176
Exons	2170..3313, 4218..4748		
GI Descrip.	'4887131/gb AAD32206.1 AF134732_1 1.0e-141 (AF134732) 60S ribosomal protein L1 [Prunus armeniaca]'		

Seq. No.	27884	Seq. ID	OJ000150_01.0124.C31
Gene No.	57524	Strand	+
Start	2170	End	4748
Name	OJ000150_01.0124.C31.o1.np	Method	AAT/NAP
Start	2207	End	4328
GI	6682241	Score	1577
Exons	2207..3313, 4218..4328		
GI Descrip.	(AC016661) putative 60S ribosomal protein L1 [Arabidopsis thaliana]		

Seq. No.	27884	Seq. ID	OJ000150_01.0124.C31
Gene No.	57524	Strand	+
Start	2170	End	4748
Name	OJ000150_01.0124.C31.o1.gs	Method	GENSCAN
Start	2210	End	4331
GI	none	Score	.5
Exons	2210..3313, 4218..4331		

Seq. No.	27884	Seq. ID	OJ000150_01.0124.C31
Gene No.	57524	Strand	+
Start	2170	End	4748
Name	OJ000150_01.0124.C31.o1.tm	Method	TBLASTX:Maize
Start	2221	End	4403
GI	none	Score	75
Exons	2221..2268, 2222..2272, 2273..3304, 2299..2781, 2848..2901, 2861..3097, 2952..3125, 2968..3261, 3195..3314, 3196..3315, 4220..4360, 4247..4267, 4254..4403, 4254..4403		

Seq. No.	27884	Seq. ID	OJ000150_01.0124.C31
Gene No.	57524	Strand	+
Start	2170	End	4748
Name	OJ000150_01.0124.C31.o1.ts	Method	TBLASTX:Soybean
Start	2224	End	4331
GI	none	Score	1299
Exons	2224..2556, 2225..3298, 2620..2775, 2848..2901, 2864..3097, 2971..3123, 3084..3125, 3199..3300, 3199..3261, 4217..4330, 4218..4331		

Seq. No.	27884	Seq. ID	OJ000150_01.0124.C31
Gene No.	57524	Strand	+
Start	2170	End	4748
Name	OJ000150_01.0124.C31.o2.tc	Method	TBLASTX:Cress
Start	2224	End	2668
GI	none	Score	546
Exons	2224..2667, 2225..2668		

Seq. No.	27884	Seq. ID	OJ000150_01.0124.C31
Gene No.	57524	Strand	+
Start	2170	End	4748
Name	OJ000150_01.0124.C31.o1.tc	Method	TBLASTX:Cress
Start	2669	End	4343
GI	none	Score	699
Exons	2669..3298, 2671..2772, 2848..2901, 2864..3097, 2971..3120, 3081..3122, 4217..4324, 4218..4331, 4254..4343		

Seq. No.	27884	Seq. ID	OJ000150_01.0124.C31
Gene No.	57524	Strand	+
Start	2170	End	4748
Name	OJ000150_01.0124.C31.o1.tw	Method	TBLASTX:Wheat
Start	2986	End	3263
GI	none	Score	77
Exons	2986..3045, 2990..3058, 3032..3097, 3041..3247, 3046..3123, 3084..3125, 3187..3258, 3190..3261, 3198..3263		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o1.np	Method	AAT/NAP
Start	1	End	3521
GI	2497539	Score	1603
Exons	1..246, 1439..1529, 1612..1805, 2095..2216, 2972..3521		
GI Descrip.	PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR gi 169703 (M64736) ATP:pyruvate phosphotransferase [Ricinus communis]		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o2.tc	Method	TBLASTX:Cress
Start	1	End	1522
GI	none	Score	347
Exons	1..219, 3..200, 1442..1474, 1463..1522		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o2.tm	Method	TBLASTX:Maize
Start	1	End	217
GI	none	Score	344
Exons	1..216, 1..81, 3..209, 139..216, 179..217		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o2.ts	Method	TBLASTX:Soybean
Start	40	End	216
GI	none	Score	227
Exons	40..216, 63..197		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o1.gs	Method	GENSCAN



Start	70	End	3450
GI	none	Score	.88
Exons	70..352, 534..646, 1439..1529, 1612..1805, 2095..2216, 2972..3450		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o1.tm	Method	TBLASTX:Maize
Start	1423	End	3450
GI	none	Score	143
Exons	1423..1527, 1433..1528, 1437..1535, 1611..1805, 1611..1805, 1649..1816, 2092..2214, 2092..2214, 2094..2216, 2094..2216, 2969..3304, 2970..3329, 3129..3317, 3355..3450		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o1.gp	Method	AAT/GAP
Start	1438	End	1805
GI	66420_1.R1084	Score	507
Exons	1438..1529, 1612..1805		
GI Descrip.	'2497539/sp Q43117 KPYA_RICCO 3.0e-52 PYRUVATE KINASE, CHLOROPLAST ISOZYME A PRECURSOR >gi_169703 (M64736) ATP:pyruvate phosphotransferase [Ricinus communis]'		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o1.ts	Method	TBLASTX:Soybean
Start	2077	End	3467
GI	none	Score	190
Exons	2077..2211, 2092..2211, 2094..2216, 2960..3304, 2970..3329, 3389..3454, 3390..3467		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o1.tc	Method	TBLASTX:Cress
Start	2118	End	3458
GI	none	Score	148
Exons	2118..2213, 2119..2214, 2972..3304, 2973..3329, 3390..3458, 3395..3454		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+
Start	1	End	3521
Name	OJ000150_01.0124.C32.o2.gp	Method	AAT/GAP
Start	2996	End	3455
GI	21356_1.R1084	Score	855
Exons	2996..3455		
GI Descrip.	'2497541/sp Q40545 KPYA_TOBAC 8.0e-45 PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR >gi_482936_emb_CAA82222_ (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]'		

Seq. No.	27885	Seq. ID	OJ000150_01.0124.C32
Gene No.	57525	Strand	+

Start	1	End	3521
Name	OJ000150_01.0124.C32.o1.tw	Method	TBLASTX:Wheat
Start	3042	End	3317
GI	none	Score	239
Exons	3042..3317, 3044..3304		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57526	Strand	+
Start	1	End	156
Name	OJ000150_01.0124.C33.o1.gp	Method	AAT/GAP
Start	1	End	156
GI	427371	Score	246
Exons	1..156		
GI Descrip.	2497541/sp Q40545 KPYA TOBAC 8.0e-45 PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR >gi_482936_emb_CAA82222_ (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57527	Strand	+
Start	13616	End	16841
Name	OJ000150_01.0124.C33.o3.gs	Method	GENSCAN
Start	13616	End	14756
GI	none	Score	.4
Exons	13616..13774, 14212..14745, 14751..14756		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57527	Strand	+
Start	13616	End	16841
Name	OJ000150_01.0124.C33.o1.np	Method	AAT/NAP
Start	14353	End	16841
GI	4455356	Score	1045
Exons	14353..14629, 14666..14745, 14845..15423, 15466..15897, 16694..16841		
GI Descrip.	(AL035524) putative protein [Arabidopsis thaliana]		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57528	Strand	+
Start	17349	End	17880
Name	OJ000150_01.0124.C33.o3.gp	Method	AAT/GAP
Start	17349	End	17880
GI	2428647	Score	670
Exons	17349..17503, 17675..17880		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57529	Strand	+
Start	17979	End	18361
Name	OJ000150_01.0124.C33.o4.gp	Method	AAT/GAP
Start	17979	End	18361
GI	5056001	Score	714
Exons	17979..18361		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57530	Strand	+
Start	20674	End	25607
Name	OJ000150_01.0124.C33.o5.gs	Method	GENSCAN
Start	20674	End	25607
GI	none	Score	.45

Exons 20674..20726, 22700..22863, 25453..25607

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57531	Strand	+
Start	26202	End	30061
Name	OJ000150_01.0124.C33.o6.gs	Method	GENSCAN
Start	26202	End	30061
GI	none	Score	.41
Exons	26202..26442, 27305..27442, 27908..28032, 29224..29311, 30021..30061		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57531	Strand	+
Start	26202	End	30061
Name	OJ000150_01.0124.C33.o5.gp	Method	AAT/GAP
Start	27808	End	28095
GI	427610	Score	409
Exons	27808..28020, 28045..28095		
GI Descrip.	5852172/emb CAB55410.1  4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57532	Strand	-
Start	9940	End	12114
Name	OJ000150_01.0124.C33.o2.gs	Method	GENSCAN
Start	9940	End	12114
GI	none	Score	.42
Exons	9940..10112, 12033..12114		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57533	Strand	-
Start	13874	End	13953
Name	OJ000150_01.0124.C33.o2.gp	Method	AAT/GAP
Start	13874	End	13953
GI	38012_1.R1084	Score	93
Exons	13874..13953		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57534	Strand	-
Start	14830	End	18595
Name	OJ000150_01.0124.C33.o4.gs	Method	GENSCAN
Start	14830	End	18595
GI	none	Score	.92
Exons	14830..15725, 15801..16052, 17395..17571, 17718..17965, 18513..18595		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57535	Strand	-
Start	27917	End	34826
Name	OJ000150_01.0124.C33.o2.tm	Method	TBLASTX:Maize
Start	14560	End	15066
GI	none	Score	62
Exons	14560..14604, 14671..14751, 14675..14731, 14683..14742, 14857..14940, 14872..14985, 14874..14984, 14961..15047, 14971..15066		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57535	Strand	-
Start	27917	End	34826
Name	OJ000150_01.0124.C33.o2.ts	Method	TBLASTX:Soybean
Start	14977	End	15195
GI	none	Score	222
Exons	14977..15195, 15102..15194		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57535	Strand	-
Start	27917	End	34826
Name	OJ000150_01.0124.C33.o1.tm	Method	TBLASTX:Maize
Start	15153	End	15522
GI	none	Score	45
Exons	15153..15194, 15154..15195, 15225..15488, 15226..15489, 15465..15518, 15469..15522		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57535	Strand	-
Start	27917	End	34826
Name	OJ000150_01.0124.C33.o1.tc	Method	TBLASTX:Cress
Start	15256	End	15636
GI	none	Score	528
Exons	15256..15636, 15258..15542		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57535	Strand	-
Start	27917	End	34826
Name	OJ000150_01.0124.C33.o1.ts	Method	TBLASTX:Soybean
Start	15375	End	15630
GI	none	Score	339
Exons	15375..15542, 15376..15630, 15580..15618		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57535	Strand	-
Start	27917	End	34826
Name	OJ000150_01.0124.C33.o1.tw	Method	TBLASTX:Wheat
Start	15408	End	15747
GI	none	Score	300
Exons	15408..15542, 15409..15636, 15640..15696, 15642..15680, 15682..15747		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57535	Strand	-
Start	27917	End	34826
Name	OJ000150_01.0124.C33.o3.tm	Method	TBLASTX:Maize
Start	15523	End	15885
GI	none	Score	133
Exons	15523..15636, 15627..15698, 15640..15741, 15813..15884, 15820..15885		

Seq. No.	27886	Seq. ID	OJ000150_01.0124.C33
Gene No.	57535	Strand	-
Start	27917	End	34826
Name	OJ000150_01.0124.C33.o2.np	Method	AAT/NAP
Start	27917	End	34826

GI 5852172 Score 156  
Exons 27917..28077, 34741..34826  
GI Descrip. (AL117265) zhb0002.1 [Oryza sativa]

Seq. No. 27886 Seq. ID OJ000150\_01.0124.C33  
Gene No. 57535 Strand -  
Start 27917 End 34826  
Name OJ000150\_01.0124.C33.o7.gs Method GENSCAN  
Start 30344 End 34658  
GI none Score .74  
Exons 30344..30474, 33392..33502, 33632..33756, 33758..34111,  
34525..34658

Seq. No. 27887 Seq. ID OJ000150\_01.0124.C34  
Gene No. 57536 Strand +  
Start 1 End 1288  
Name OJ000150\_01.0124.C34.o1.np Method AAT/NAP  
Start 1 End 800  
GI 4585901 Score 377  
Exons 1..76, 154..346, 433..800  
GI Descrip. (AC007133) hypothetical protein [Arabidopsis thaliana]

Seq. No. 27887 Seq. ID OJ000150\_01.0124.C34  
Gene No. 57536 Strand +  
Start 1 End 1288  
Name OJ000150\_01.0124.C34.o1.gp Method AAT/GAP  
Start 45 End 349  
GI uC-osf1M202062a11b1 Score 386  
Exons 45..76, 154..349  
GI Descrip. '5852172/emb|CAB55410.1| 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]'

Seq. No. 27887 Seq. ID OJ000150\_01.0124.C34  
Gene No. 57536 Strand +  
Start 1 End 1288  
Name OJ000150\_01.0124.C34.o1.tw Method TBLASTX:Wheat  
Start 147 End 539  
GI none Score 189  
Exons 147..347, 148..351, 429..539, 492..539

Seq. No. 27887 Seq. ID OJ000150\_01.0124.C34  
Gene No. 57536 Strand +  
Start 1 End 1288  
Name OJ000150\_01.0124.C34.o1.tc Method TBLASTX:Cress  
Start 151 End 701  
GI none Score 62  
Exons 151..243, 229..351, 456..560, 620..700, 627..701

Seq. No. 27887 Seq. ID OJ000150\_01.0124.C34  
Gene No. 57536 Strand +  
Start 1 End 1288  
Name OJ000150\_01.0124.C34.o1.tm Method TBLASTX:Maize  
Start 151 End 590  
GI none Score 143  
Exons 151..348, 429..467, 462..590, 492..575, 515..586

Seq. No. 27887 Seq. ID OJ000150\_01.0124.C34

Gene No.	57536	Strand	+
Start	1	End	1288
Name	OJ000150_01.0124.C34.o1.ts	Method	TBLASTX:Soybean
Start	169	End	712
GI	none	Score	110
Exons	169..348, 456..704, 492..707, 515..712		
Seq. No.	27887	Seq. ID	OJ000150_01.0124.C34
Gene No.	57536	Strand	+
Start	1	End	1288
Name	OJ000150_01.0124.C34.o1.gs	Method	GENSCAN
Start	175	End	1025
GI	none	Score	.88
Exons	175..346, 433..1025		
Seq. No.	27887	Seq. ID	OJ000150_01.0124.C34
Gene No.	57536	Strand	+
Start	1	End	1288
Name	OJ000150_01.0124.C34.o2.gp	Method	AAT/GAP
Start	757	End	1288
GI	none	Score	980
Exons	757..1288		
Seq. No.	27888	Seq. ID	OJ000150_01.0124.C35
Gene No.	57537	Strand	+
Start	398	End	616
Name	OJ000150_01.0124.C35.o1.gs	Method	GENSCAN
Start	398	End	616
GI	none	Score	.44
Exons	398..478, 497..616		
Seq. No.	27889	Seq. ID	OJ000150_01.0124.C36
Gene No.	57538	Strand	+
Start	630	End	1768
Name	OJ000150_01.0124.C36.o1.gs	Method	GENSCAN
Start	630	End	1768
GI	none	Score	.72
Exons	630..756, 1345..1430, 1496..1768		
Seq. No.	27890	Seq. ID	OJ000150_01.0124.C39
Gene No.	57539	Strand	-
Start	1	End	1012
Name	OJ000150_01.0124.C39.o1.np	Method	AAT/NAP
Start	1	End	1012
GI	1869928	Score	178
Exons	1..251, 341..418, 967..1012		
GI Descrip.	(X80068) blz-1 protein [Hordeum vulgare]		
Seq. No.	27890	Seq. ID	OJ000150_01.0124.C39
Gene No.	57539	Strand	-
Start	1	End	1012
Name	OJ000150_01.0124.C39.o1.tm	Method	TBLASTX:Maize
Start	123	End	419
GI	none	Score	116
Exons	123..254, 123..254, 337..417, 339..419, 340..417		
Seq. No.	27890	Seq. ID	OJ000150_01.0124.C39

Gene No. 57539  
 Start 1  
 Name OJ000150\_01.0124.C39.o1.gs  
 Start 126  
 GI none  
 Exons 126..251, 341..502, 904..945

Strand -  
 End 1012  
 Method GENSCAN  
 End 945  
 Score .87

Seq. No. 27891  
 Gene No. 57540  
 Start 63  
 Name OJ000150\_01.0124.C40.o1.gs  
 Start 63  
 GI none  
 Exons 63..159, 394..685

Seq. ID OJ000150\_01.0124.C40  
 Strand +  
 End 685  
 Method GENSCAN  
 End 685  
 Score .83

Seq. No. 27892  
 Gene No. 57541  
 Start 88  
 Name OJ000150\_01.0124.C41.o1.gs  
 Start 88  
 GI none  
 Exons 88..216

Seq. ID OJ000150\_01.0124.C41  
 Strand -  
 End 216  
 Method GENSCAN  
 End 216  
 Score .44

Seq. No. 27893  
 Gene No. 57542  
 Start 532  
 Name OJ000150\_01.0124.C42.o1.gs  
 Start 532  
 GI none  
 Exons 532..633

Seq. ID OJ000150\_01.0124.C42  
 Strand -  
 End 633  
 Method GENSCAN  
 End 633  
 Score .92

Seq. No. 27894  
 Gene No. 57543  
 Start 229  
 Name OJ000150\_01.0124.C48.o1.gs  
 Start 229  
 GI none  
 Exons 229..1093

Seq. ID OJ000150\_01.0124.C48  
 Strand -  
 End 1093  
 Method GENSCAN  
 End 1093  
 Score .66

Seq. No. 27895  
 Gene No. 57544  
 Start 1  
 Name OJ000150\_01.0124.C51.o1.gp  
 Start 1  
 GI 4878293  
 Exons 1..53

Seq. ID OJ000150\_01.0124.C51  
 Strand -  
 End 53  
 Method AAT/GAP  
 End 53  
 Score 106

Seq. No. 27895  
 Gene No. 57545  
 Start 8  
 Name OJ000150\_01.0124.C51.o1.gs  
 Start 8  
 GI none  
 Exons 8..253

Seq. ID OJ000150\_01.0124.C51  
 Strand -  
 End 253  
 Method GENSCAN  
 End 253  
 Score .87

Seq. No. 27895  
 Gene No. 57546

Seq. ID OJ000150\_01.0124.C51  
 Strand -

Start	1142	End	1790
Name	OJ000150_01.0124.C51.o2.gp	Method	AAT/GAP
Start	1142	End	1674
GI	7606_1.R1084	Score	1012
Exons	1142..1674		
GI Descrip.	'4887131/gb AAD32206.1 AF134732_1 1.0e-141 (AF134732) 60S ribosomal protein L1 [Prunus armeniaca]'		

Seq. No.	27895	Seq. ID	OJ000150_01.0124.C51
Gene No.	57546	Strand	-
Start	1142	End	1790
Name	OJ000150_01.0124.C51.o1.np	Method	AAT/NAP
Start	1565	End	1790
GI	4887131	Score	133
Exons	1565..1677, 1751..1790		
GI Descrip.	(AF134732) 60S ribosomal protein L1 [Prunus armeniaca]		

Seq. No.	27896	Seq. ID	OJ000150_01.0124.C53
Gene No.	57547	Strand	+
Start	489	End	553
Name	OJ000150_01.0124.C53.o1.gs	Method	GENSCAN
Start	489	End	553
GI	none	Score	.59
Exons	489..553		

Seq. No.	27897	Seq. ID	OJ000150_01.0124.C54
Gene No.	57548	Strand	-
Start	1	End	424
Name	OJ000150_01.0124.C54.o1.np	Method	AAT/NAP
Start	1	End	424
GI	6466937	Score	479
Exons	1..424		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	27897	Seq. ID	OJ000150_01.0124.C54
Gene No.	57548	Strand	-
Start	1	End	424
Name	OJ000150_01.0124.C54.o1.tm	Method	TBLASTX:Maize
Start	1	End	390
GI	none	Score	161
Exons	1..390, 1..153, 3..389		

Seq. No.	27897	Seq. ID	OJ000150_01.0124.C54
Gene No.	57548	Strand	-
Start	1	End	424
Name	OJ000150_01.0124.C54.o1.tw	Method	TBLASTX:Wheat
Start	3	End	413
GI	none	Score	113
Exons	3..296, 3..413, 16..336		

Seq. No.	27897	Seq. ID	OJ000150_01.0124.C54
Gene No.	57548	Strand	-
Start	1	End	424
Name	OJ000150_01.0124.C54.o1.gs	Method	GENSCAN
Start	54	End	347
GI	none	Score	.75



Exons 54..347

Seq. No. 27897  
Gene No. 57548  
Start 1  
Name OJ000150\_01.0124.C54.ol.ts  
Start 90  
GI none  
Exons 90..404

Seq. ID OJ000150\_01.0124.C54  
Strand -  
End 424  
Method TBLASTX:Soybean  
End 404  
Score 220

Seq. No. 27898  
Gene No. 57549  
Start 202  
Name OJ000150\_01.0124.C58.ol.gs  
Start 202  
GI none  
Exons 202..317, 391..532

Seq. ID OJ000150\_01.0124.C58  
Strand +  
End 532  
Method GENSCAN  
End 532  
Score .57

Seq. No. 27898  
Gene No. 57550  
Start 1  
Name OJ000150\_01.0124.C58.ol.np  
Start 1  
GI 6466937  
Exons 1..629  
GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. ID OJ000150\_01.0124.C58  
Strand -  
End 629  
Method AAT/NAP  
End 629  
Score 353

Seq. No. 27898  
Gene No. 57550  
Start 1  
Name OJ000150\_01.0124.C58.ol.tm  
Start 77  
GI none  
Exons 77..460, 79..525

Seq. ID OJ000150\_01.0124.C58  
Strand -  
End 629  
Method TBLASTX:Maize  
End 525  
Score 155

Seq. No. 27898  
Gene No. 57550  
Start 1  
Name OJ000150\_01.0124.C58.ol.ts  
Start 193  
GI none  
Exons 193..546

Seq. ID OJ000150\_01.0124.C58  
Strand -  
End 629  
Method TBLASTX:Soybean  
End 546  
Score 231

Seq. No. 27899  
Gene No. 57551  
Start 1  
Name OJ000150\_01.0124.C60.ol.np  
Start 1  
GI 728630  
Exons 1..120  
GI Descrip. (X85103) orf [Oryza sativa]

Seq. ID OJ000150\_01.0124.C60  
Strand +  
End 120  
Method AAT/NAP  
End 120  
Score 114

Seq. No. 27900  
Gene No. 57552  
Start 472  
Name OJ000150\_01.0124.C66.ol.gs

Seq. ID OJ000150\_01.0124.C66  
Strand +  
End 618  
Method GENSCAN

Start 472  
 GI none  
 Exons 472..618

End 618  
 Score .62

Seq. No. 27901 Seq. ID OJ000150\_01.0124.C67  
 Gene No. 57553 Strand +  
 Start 1 End 811  
 Name OJ000150\_01.0124.C67.o1.np Method AAT/NAP  
 Start 1 End 811  
 GI 2828710 Score 51  
 Exons 1..31, 330..422, 690..811  
 GI Descrip. (AF043642) matrin cyclophilin [Rattus norvegicus]

Seq. No. 27901 Seq. ID OJ000150\_01.0124.C67  
 Gene No. 57553 Strand +  
 Start 1 End 811  
 Name OJ000150\_01.0124.C67.o1.gs Method GENSCAN  
 Start 390 End 422  
 GI none Score .73  
 Exons 390..422

Seq. No. 27902 Seq. ID OJ000150\_01.0124.C68  
 Gene No. 57554 Strand -  
 Start 83 End 552  
 Name OJ000150\_01.0124.C68.o1.tm Method TBLASTX:Maize  
 Start 82 End 552  
 GI none Score 80  
 Exons 82..144, 83..136, 233..445, 238..438, 239..439, 279..467, 443..493, 446..496, 473..547, 490..552

Seq. No. 27902 Seq. ID OJ000150\_01.0124.C68  
 Gene No. 57554 Strand -  
 Start 83 End 552  
 Name OJ000150\_01.0124.C68.o1.gp Method AAT/GAP  
 Start 83 End 270  
 GI 287063 Score 153  
 Exons 83..161, 242..270

Seq. No. 27902 Seq. ID OJ000150\_01.0124.C68  
 Gene No. 57554 Strand -  
 Start 83 End 552  
 Name OJ000150\_01.0124.C68.o1.ts Method TBLASTX:Soybean  
 Start 103 End 435  
 GI none Score 70  
 Exons 103..147, 253..435, 255..362, 295..402

Seq. No. 27903 Seq. ID OJ000150\_01.0124.C69  
 Gene No. 57555 Strand +  
 Start 247 End 491  
 Name OJ000150\_01.0124.C69.o1.gs Method GENSCAN  
 Start 247 End 491  
 GI none Score .82  
 Exons 247..491

Seq. No. 27904 Seq. ID OJ000150\_01.0124.C71  
 Gene No. 57556 Strand +  
 Start 232 End 344

Name	OJ000150_01.0124.C71.ol.gp	Method	AAT/GAP
Start	232	End	344
GI	777_1.R1084	Score	104
Exons	232..344		
GI Descrip.	'5042444/gb AAD38281.1 AC007789_7 3.0e-41 (AC007789) putative low molecular early light-inducible protein [Oryza sativa]'		

Seq. No.	27905	Seq. ID	OJ000150_01.0124.C72
Gene No.	57557	Strand	+
Start	299	End	435
Name	OJ000150_01.0124.C72.ol.gs	Method	GENSCAN
Start	299	End	435
GI	none	Score	.66
Exons	299..435		

Seq. No.	27906	Seq. ID	OJ000150_01.0124.C74
Gene No.	57558	Strand	+
Start	516	End	1612
Name	OJ000150_01.0124.C74.ol.tm	Method	TBLASTX:Maize
Start	513	End	1440
GI	none	Score	230
Exons	513..665, 531..668, 827..892, 828..980, 828..980, 829..1005, 1280..1438, 1280..1438, 1281..1439, 1282..1440		

Seq. No.	27906	Seq. ID	OJ000150_01.0124.C74
Gene No.	57558	Strand	+
Start	516	End	1612
Name	OJ000150_01.0124.C74.ol.gp	Method	AAT/GAP
Start	516	End	978
GI	uC-osf1M202020b08b1	Score	464
Exons	516..665, 829..978		
GI Descrip.	'2497541/sp Q40545 KPYA_TOBAC 8.0e-45 PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR >gi_482936_emb_CAA82222_ (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]'		

Seq. No.	27906	Seq. ID	OJ000150_01.0124.C74
Gene No.	57558	Strand	+
Start	516	End	1612
Name	OJ000150_01.0124.C74.ol.gs	Method	GENSCAN
Start	534	End	1438
GI	none	Score	.75
Exons	534..665, 829..978, 1283..1438		

Seq. No.	27906	Seq. ID	OJ000150_01.0124.C74
Gene No.	57558	Strand	+
Start	516	End	1612
Name	OJ000150_01.0124.C74.ol.np	Method	AAT/NAP
Start	534	End	1612
GI	2225877	Score	521
Exons	534..665, 829..978, 1283..1612		
GI Descrip.	(AB002406) TIP49 [Rattus norvegicus] gi 4106528 (AF100694) Pontin52 [Mus musculus] gi 4521276 dbj BAA76313.1  (AB001581) DNA helicase p50 [Rattus norvegicus]		

Seq. No.	27906	Seq. ID	OJ000150_01.0124.C74
Gene No.	57558	Strand	+
Start	516	End	1612

Name	OJ000150_01.0124.C74.ol.ts	Method	TBLASTX:Soybean
Start	603	End	1005
GI	none	Score	112
Exons	603..671, 829..852, 843..977, 847..1005, 855..977		

Seq. No.	27907	Seq. ID	OJ000150_01.0124.C75
Gene No.	57559	Strand	+
Start	1	End	6629
Name	OJ000150_01.0124.C75.ol.np	Method	AAT/NAP
Start	1	End	2885
GI	4506753	Score	941
Exons	1..215, 520..675, 1315..1449, 1560..1625, 1850..1963, 2092..2187, 2265..2357, 2578..2646, 2799..2885		

GI Descrip. TATA binding protein interacting protein 49 kDa  
gi|3132308|dbj|BAA28169| (AB012122) TIP49 [Homo sapiens]  
gi|3243035 (AF070735) RuvB-like protein RUVBL1 [Homo sapiens]  
gi|3892584|emb|CAA08986| (AJ010058) Nuclear matrix protein  
NMP238 [Homo sapiens] gi|4151525 (AF099084) Pontin52 [Homo  
sapiens] gi|5327000|emb|CAB46271.1| (Y18418) erythrocyte  
cytosolic protein of 54 kDa,

Seq. No.	27907	Seq. ID	OJ000150_01.0124.C75
Gene No.	57559	Strand	+
Start	1	End	6629
Name	OJ000150_01.0124.C75.ol.gp	Method	AAT/GAP
Start	64	End	215
GI	uC-osflM202020b08b1	Score	237
Exons	64..215		
GI Descrip.	'2497541/sp Q40545 KPYA_TOBAC 8.0e-45 PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR >gi_482936_emb_CAA82222_ (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]'		

Seq. No.	27907	Seq. ID	OJ000150_01.0124.C75
Gene No.	57559	Strand	+
Start	1	End	6629
Name	OJ000150_01.0124.C75.ol.gs	Method	GENSCAN
Start	486	End	6629
GI	none	Score	.58
Exons	486..675, 1315..1449, 1560..1625, 1850..1956, 2058..2187, 2265..2357, 2612..2646, 2799..2947, 3456..3586, 4015..4200, 6169..6292, 6400..6629		

Seq. No.	27907	Seq. ID	OJ000150_01.0124.C75
Gene No.	57560	Strand	-
Start	5229	End	5443
Name	OJ000150_01.0124.C75.ol.tm	Method	TBLASTX:Maize
Start	64	End	1933
GI	none	Score	242
Exons	64..129, 65..217, 66..242, 517..675, 517..675, 518..676, 519..677, 1308..1451, 1309..1452, 1548..1625, 1558..1626, 1559..1627, 1560..1628, 1816..1932, 1847..1933, 1847..1933		

Seq. No.	27907	Seq. ID	OJ000150_01.0124.C75
Gene No.	57560	Strand	-
Start	5229	End	5443
Name	OJ000150_01.0124.C75.o2.ts	Method	TBLASTX:Soybean
Start	66	End	242

GI	none	Score	39
Exons	66..89, 80..214, 84..242, 92..214		

Seq. No.	27907	Seq. ID	OJ000150_01.0124.C75
Gene No.	57560	Strand	-
Start	5229	End	5443
Name	OJ000150_01.0124.C75.o1.ts	Method	TBLASTX:Soybean
Start	1372	End	2318
GI	none	Score	128
Exons	1372..1452, 1374..1457, 1377..1457, 1548..1625, 1559..1627, 1560..1628, 1816..1965, 1847..1963, 2064..2195, 2085..2189, 2086..2190, 2261..2317, 2262..2318		

Seq. No.	27907	Seq. ID	OJ000150_01.0124.C75
Gene No.	57560	Strand	-
Start	5229	End	5443
Name	OJ000150_01.0124.C75.o1.tw	Method	TBLASTX:Wheat
Start	2130	End	2890
GI	none	Score	79
Exons	2130..2186, 2131..2190, 2259..2351, 2263..2352, 2264..2353, 2264..2353, 2565..2669, 2569..2658, 2796..2888, 2797..2889, 2798..2890, 2813..2890		

Seq. No.	27907	Seq. ID	OJ000150_01.0124.C75
Gene No.	57560	Strand	-
Start	5229	End	5443
Name	OJ000150_01.0124.C75.o2.gp	Method	AAT/GAP
Start	5229	End	5443
GI	LIB3477-003-P1-K1-E9	Score	121
Exons	5229..5249, 5342..5443		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27908	Seq. ID	OJ000150_01.0124.C77
Gene No.	57561	Strand	+
Start	120	End	497
Name	OJ000150_01.0124.C77.o1.gs	Method	GENSCAN
Start	120	End	497
GI	none	Score	.85
Exons	120..497		

Seq. No.	27909	Seq. ID	OJ000150_01.0124.C78
Gene No.	57562	Strand	-
Start	263	End	435
Name	OJ000150_01.0124.C78.o1.gs	Method	GENSCAN
Start	263	End	435
GI	none	Score	.81
Exons	263..435		

Seq. No.	27910	Seq. ID	OJ000150_01.0124.C79
Gene No.	57563	Strand	+
Start	66	End	610
Name	OJ000150_01.0124.C79.o1.np	Method	AAT/NAP
Start	66	End	610
GI	1279366	Score	.75
Exons	66..128, 399..424, 513..610		

GI Descrip. (X97255) cyclophilin [Digitalis lanata]

Seq. No.	27911	Seq. ID	OJ000150_01.0124.C80
Gene No.	57564	Strand	-
Start	1	End	647
Name	OJ000150_01.0124.C80.o1.np	Method	AAT/NAP
Start	1	End	647
GI	4049344	Score	93

Exons 1..156, 622..647  
GI Descrip. (AL034567) putative protein [Arabidopsis thaliana]

Seq. No.	27911	Seq. ID	OJ000150_01.0124.C80
Gene No.	57564	Strand	-
Start	1	End	647
Name	OJ000150_01.0124.C80.o1.tm	Method	TBLASTX:Maize
Start	1	End	160
GI	none	Score	170

Exons 1..30, 18..155, 34..156, 35..160, 37..156

Seq. No.	27911	Seq. ID	OJ000150_01.0124.C80
Gene No.	57564	Strand	-
Start	1	End	647
Name	OJ000150_01.0124.C80.o1.gs	Method	GENSCAN
Start	44	End	122
GI	none	Score	.68

Exons 44..122

Seq. No.	27912	Seq. ID	OJ000150_01.0124.C81
Gene No.	57565	Strand	-
Start	162	End	741
Name	OJ000150_01.0124.C81.o1.np	Method	AAT/NAP
Start	162	End	741
GI	6630695	Score	62

Exons 162..366, 699..741

GI Descrip. (AP000969) ESTs C97915(C0113), C26087(C11614) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	27912	Seq. ID	OJ000150_01.0124.C81
Gene No.	57565	Strand	-
Start	162	End	741
Name	OJ000150_01.0124.C81.o1.gs	Method	GENSCAN
Start	166	End	710
GI	none	Score	.66

Exons 166..366, 699..710

Seq. No.	27912	Seq. ID	OJ000150_01.0124.C81
Gene No.	57565	Strand	-
Start	162	End	741
Name	OJ000150_01.0124.C81.o1.gp	Method	AAT/GAP
Start	275	End	741
GI	uC-osflm202102f05b1	Score	204

Exons 275..366, 699..741

GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'

Seq. No.	27913	Seq. ID	OJ000150_01.0124.C89
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Gene No. 57566  
 Start 1  
 Name OJ000150\_01.0124.C89.ol.gp  
 Start 1  
 GI none  
 Exons 1..77

Strand -  
 End 77  
 Method AAT/GAP  
 End 77  
 Score 150

Seq. No. 27914  
 Gene No. 57567  
 Start 1  
 Name OJ000150\_01.0124.C92.ol.np  
 Start 1  
 GI 4309741  
 Exons 1..24, 466..722  
 GI Descrip. (AC006439) hypothetical protein [Arabidopsis thaliana]

Seq. ID OJ000150\_01.0124.C92  
 Strand +  
 End 722  
 Method AAT/NAP  
 End 722  
 Score 90

Seq. No. 27914  
 Gene No. 57567  
 Start 1  
 Name OJ000150\_01.0124.C92.ol.gs  
 Start 542  
 GI none  
 Exons 542..642

Seq. ID OJ000150\_01.0124.C92  
 Strand +  
 End 722  
 Method GENSCAN  
 End 642  
 Score .86

Seq. No. 27915  
 Gene No. 57568  
 Start 1  
 Name OJ000150\_01.0124.C98.ol.gp  
 Start 1  
 GI 427371  
 Exons 1..378  
 GI Descrip. 2497541/sp|Q40545|KPYA\_TOBAC 8.0e-45 PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR >gi\_482936\_emb\_CAA82222\_ (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]

Seq. ID OJ000150\_01.0124.C98  
 Strand +  
 End 378  
 Method AAT/GAP  
 End 378  
 Score 667

Seq. No. 27915  
 Gene No. 57568  
 Start 1  
 Name OJ000150\_01.0124.C98.ol.ts  
 Start 1  
 GI none  
 Exons 1..93, 1..150, 2..151, 153..278, 153..278, 154..279

Seq. ID OJ000150\_01.0124.C98  
 Strand +  
 End 378  
 Method TBLASTX:Soybean  
 End 279  
 Score 61

Seq. No. 27915  
 Gene No. 57568  
 Start 1  
 Name OJ000150\_01.0124.C98.ol.np  
 Start 1  
 GI 169705  
 Exons 1..273  
 GI Descrip. (M64737) ATP:pyruvate phosphotransferase [Ricinus communis]

Seq. ID OJ000150\_01.0124.C98  
 Strand +  
 End 378  
 Method AAT/NAP  
 End 273  
 Score 393

Seq. No. 27915  
 Gene No. 57568  
 Start 1  
 Name OJ000150\_01.0124.C98.ol.tc  
 Start 1

Seq. ID OJ000150\_01.0124.C98  
 Strand +  
 End 378  
 Method TBLASTX:Cress  
 End 282

GI	none	Score	252
Exons	1..150, 2..151, 151..273, 153..269, 153..281, 154..282		
Seq. No.	27915	Seq. ID	OJ000150_01.0124.C98
Gene No.	57568	Strand	+
Start	1	End	378
Name	OJ000150_01.0124.C98.o1.tm	Method	TBLASTX:Maize
Start	1	End	297
GI	none	Score	254
Exons	1..150, 2..151, 23..151, 152..202, 153..278, 153..275, 154..297		
Seq. No.	27915	Seq. ID	OJ000150_01.0124.C98
Gene No.	57568	Strand	+
Start	1	End	378
Name	OJ000150_01.0124.C98.o1.gs	Method	GENSCAN
Start	26	End	276
GI	none	Score	.67
Exons	26..91, 142..276		
Seq. No.	27916	Seq. ID	OJ000150_01.0124.C99
Gene No.	57569	Strand	+
Start	1	End	646
Name	OJ000150_01.0124.C99.o1.np	Method	AAT/NAP
Start	1	End	646
GI	5902445	Score	1047
Exons	1..646		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	27916	Seq. ID	OJ000150_01.0124.C99
Gene No.	57569	Strand	+
Start	1	End	646
Name	OJ000150_01.0124.C99.o1.tw	Method	TBLASTX:Wheat
Start	28	End	442
GI	none	Score	461
Exons	28..441, 29..442		
Seq. No.	27916	Seq. ID	OJ000150_01.0124.C99
Gene No.	57569	Strand	+
Start	1	End	646
Name	OJ000150_01.0124.C99.o1.gs	Method	GENSCAN
Start	152	End	517
GI	none	Score	.59
Exons	152..517		
Seq. No.	27916	Seq. ID	OJ000150_01.0124.C99
Gene No.	57569	Strand	+
Start	1	End	646
Name	OJ000150_01.0124.C99.o1.tm	Method	TBLASTX:Maize
Start	182	End	565
GI	none	Score	338
Exons	182..565, 286..564		
Seq. No.	27916	Seq. ID	OJ000150_01.0124.C99
Gene No.	57569	Strand	+
Start	1	End	646
Name	OJ000150_01.0124.C99.o1.ts	Method	TBLASTX:Soybean
Start	317	End	646



GI none  
Exons 317..646, 334..477, 514..645

Score 291

Seq. No. 27916  
Gene No. 57569  
Start 1  
Name OJ000150\_01.0124.C99.o2.tw  
Start 446  
GI none  
Exons 446..646, 448..645

Seq. ID OJ000150\_01.0124.C99  
Strand +  
End 646  
Method TBLASTX:Wheat  
End 646  
Score 209

Seq. No. 27917  
Gene No. 57570  
Start 1  
Name OJ000150\_01.0124.C100.o1.np  
Start 1  
GI 5902445  
Exons 1..150  
GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. ID OJ000150\_01.0124.C100  
Strand +  
End 150  
Method AAT/NAP  
End 150  
Score 273

Seq. No. 27917  
Gene No. 57571  
Start 71  
Name OJ000150\_01.0124.C100.o1.gs  
Start 71  
GI none  
Exons 71..153

Seq. ID OJ000150\_01.0124.C100  
Strand +  
End 153  
Method GENSCAN  
End 153  
Score .78

Seq. No. 27918  
Gene No. 57572  
Start 663  
Name OJ000150\_01.0124.C103.o1.gs  
Start 663  
GI none  
Exons 663..1007

Seq. ID OJ000150\_01.0124.C103  
Strand +  
End 1007  
Method GENSCAN  
End 1007  
Score .95

Seq. No. 27919  
Gene No. 57573  
Start 775  
Name OJ000150\_01.0124.C104.o1.gs  
Start 775  
GI none  
Exons 775..887

Seq. ID OJ000150\_01.0124.C104  
Strand +  
End 887  
Method GENSCAN  
End 887  
Score .6

Seq. No. 27919  
Gene No. 57574  
Start 3562  
Name OJ000150\_01.0124.C104.o2.np  
Start 2522  
GI 4680182  
Exons 2522..2608, 5028..5570  
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. ID OJ000150\_01.0124.C104  
Strand -  
End 5570  
Method AAT/NAP  
End 5570  
Score 202

Seq. No. 27919  
Gene No. 57574  
Start 3562  
Name OJ000150\_01.0124.C104.o2.gs

Seq. ID OJ000150\_01.0124.C104  
Strand -  
End 5570  
Method GENSCAN

Start 3562  
 GI none  
 Exons 3562..3753, 3759..5564

End 5564  
 Score .91

Seq. No. 27919 Seq. ID OJ000150\_01.0124.C104  
 Gene No. 57574 Strand -  
 Start 3562 End 5570  
 Name OJ000150\_01.0124.C104.ol.np Method AAT/NAP  
 Start 4588 End 4820  
 GI 2832636 Score 130  
 Exons 4588..4820  
 GI Descrip. (AL021711) hypothetical protein [Arabidopsis thaliana]

Seq. No. 27919 Seq. ID OJ000150\_01.0124.C104  
 Gene No. 57575 Strand -  
 Start 9554 End 12174  
 Name OJ000150\_01.0124.C104.ol.tm Method TBLASTX:Maize  
 Start 5049 End 5492  
 GI none Score 151  
 Exons 5049..5324, 5053..5325, 5370..5492

Seq. No. 27919 Seq. ID OJ000150\_01.0124.C104  
 Gene No. 57575 Strand -  
 Start 9554 End 12174  
 Name OJ000150\_01.0124.C104.ol.ts Method TBLASTX:Soybean  
 Start 5229 End 5531  
 GI none Score 128  
 Exons 5229..5312, 5367..5531

Seq. No. 27919 Seq. ID OJ000150\_01.0124.C104  
 Gene No. 57575 Strand -  
 Start 9554 End 12174  
 Name OJ000150\_01.0124.C104.o4.gs Method GENSCAN  
 Start 9554 End 12174  
 GI none Score .6  
 Exons 9554..9740, 9793..9863, 9905..9998, 10605..10719, 12018..12174

Seq. No. 27920 Seq. ID OJ000150\_01.0124.C106  
 Gene No. 57576 Strand +  
 Start 895 End 2152  
 Name OJ000150\_01.0124.C106.ol.np Method AAT/NAP  
 Start 895 End 2152  
 GI 6498424 Score 110  
 Exons 895..1071, 2129..2152  
 GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. No. 27921 Seq. ID OJ000150\_01.0124.C107  
 Gene No. 57577 Strand +  
 Start 1 End 5402  
 Name OJ000150\_01.0124.C107.ol.np Method AAT/NAP  
 Start 1 End 5360  
 GI 6466937 Score 2206  
 Exons 1..77, 947..1083, 1173..5360  
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No. 27921 Seq. ID OJ000150\_01.0124.C107

Gene No.	57577	Strand	+
Start	1	End	5402
Name	OJ000150_01.0124.C107.o1.gs	Method	GENSCAN
Start	278	End	5402
GI	none	Score	.75
Exons	278..305, 778..4334, 4344..5402		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57578	Strand	+
Start	6660	End	10018
Name	OJ000150_01.0124.C107.o2.np	Method	AAT/NAP
Start	6140	End	10018
GI	6630695	Score	628
Exons	6140..6231, 6315..6417, 6499..6557, 6647..6704, 6787..6836, 6942..7017, 7350..7550, 8101..8195, 8300..8378, 8460..8556, 8968..9023, 9111..9199, 9422..9465, 9909..10018		
GI Descrip.	(AP000969) ESTs C97915(C0113), C26087(C11614) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57578	Strand	+
Start	6660	End	10018
Name	OJ000150_01.0124.C107.o1.gp	Method	AAT/GAP
Start	6181	End	7441
GI	uC-osflm202102f05b1	Score	796
Exons	6181..6231, 6315..6417, 6499..6552, 6642..6704, 6787..6836, 6942..7017, 7350..7441		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57578	Strand	+
Start	6660	End	10018
Name	OJ000150_01.0124.C107.o2.gs	Method	GENSCAN
Start	6660	End	9144
GI	none	Score	.75
Exons	6660..6704, 6942..7017, 8293..8378, 8979..9023, 9085..9144		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57579	Strand	+
Start	10155	End	10550
Name	OJ000150_01.0124.C107.o2.gp	Method	AAT/GAP
Start	10155	End	10550
GI	none	Score	776
Exons	10155..10550		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o6.tm	Method	TBLASTX:Maize
Start	1156	End	1430
GI	none	Score	75
Exons	1156..1407, 1194..1430, 1196..1429		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-

Start 12135  
 Name OJ000150\_01.0124.C107.o7.tm  
 Start 1788  
 GI none  
 Exons 1788..2015, 1886..2014

End 16449  
 Method TBLASTX:Maize  
 End 2015  
 Score 252

Seq. No. 27921  
 Gene No. 57580  
 Start 12135  
 Name OJ000150\_01.0124.C107.o1.tw  
 Start 2523  
 GI none  
 Exons 2523..3005, 2627..2947, 2667..2972

Seq. ID OJ000150\_01.0124.C107  
 Strand -  
 End 16449  
 Method TBLASTX:Wheat  
 End 3005  
 Score 387

Seq. No. 27921  
 Gene No. 57580  
 Start 12135  
 Name OJ000150\_01.0124.C107.o3.ts  
 Start 2559  
 GI none  
 Exons 2559..2873

Seq. ID OJ000150\_01.0124.C107  
 Strand -  
 End 16449  
 Method TBLASTX:Soybean  
 End 2873  
 Score 220

Seq. No. 27921  
 Gene No. 57580  
 Start 12135  
 Name OJ000150\_01.0124.C107.o1.tm  
 Start 2573  
 GI none  
 Exons 2573..3040, 2574..3059

Seq. ID OJ000150\_01.0124.C107  
 Strand -  
 End 16449  
 Method TBLASTX:Maize  
 End 3059  
 Score 501

Seq. No. 27921  
 Gene No. 57580  
 Start 12135  
 Name OJ000150\_01.0124.C107.o1.ts  
 Start 2970  
 GI none  
 Exons 2970..3332

Seq. ID OJ000150\_01.0124.C107  
 Strand -  
 End 16449  
 Method TBLASTX:Soybean  
 End 3332  
 Score 342

Seq. No. 27921  
 Gene No. 57580  
 Start 12135  
 Name OJ000150\_01.0124.C107.o3.tw  
 Start 3054  
 GI none  
 Exons 3054..3332, 3318..3452

Seq. ID OJ000150\_01.0124.C107  
 Strand -  
 End 16449  
 Method TBLASTX:Wheat  
 End 3452  
 Score 263

Seq. No. 27921  
 Gene No. 57580  
 Start 12135  
 Name OJ000150\_01.0124.C107.o2.tm  
 Start 3078  
 GI none  
 Exons 3078..3329, 3275..3337, 3318..3602, 3395..3511

Seq. ID OJ000150\_01.0124.C107  
 Strand -  
 End 16449  
 Method TBLASTX:Maize  
 End 3602  
 Score 267

Seq. No. 27921  
 Gene No. 57580  
 Start 12135

Seq. ID OJ000150\_01.0124.C107  
 Strand -  
 End 16449

Name	OJ000150_01.0124.C107.o4.ts	Method	TBLASTX:Soybean
Start	3387	End	3608
GI	none	Score	204
Exons	3387..3608, 3389..3511		
Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o4.tw	Method	TBLASTX:Wheat
Start	3453	End	3779
GI	none	Score	193
Exons	3453..3779		
Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o8.tm	Method	TBLASTX:Maize
Start	3654	End	3950
GI	none	Score	184
Exons	3654..3803, 3659..3757, 3684..3803, 3801..3950, 3818..3943		
Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o5.ts	Method	TBLASTX:Soybean
Start	4097	End	4430
GI	none	Score	200
Exons	4097..4339, 4200..4430		
Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o3.tm	Method	TBLASTX:Maize
Start	4200	End	4658
GI	none	Score	432
Exons	4200..4658, 4217..4609		
Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o2.tw	Method	TBLASTX:Wheat
Start	4278	End	4859
GI	none	Score	260
Exons	4278..4661, 4298..4498, 4731..4859		
Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o4.tm	Method	TBLASTX:Maize
Start	4949	End	5316
GI	none	Score	334
Exons	4949..5197, 4950..5285, 5174..5314, 5212..5316		
Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o2.ts	Method	TBLASTX:Soybean

Start	5931	End	8390
GI	none	Score	62
Exons	5931..5993, 6122..6223, 6124..6222, 6316..6417, 6324..6410, 6495..6557, 6499..6573, 6645..6704, 6787..6867, 7464..7553, 7464..7553, 8101..8190, 8292..8390		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o5.tm	Method	TBLASTX:Maize
Start	6113	End	9985
GI	none	Score	133
Exons	6113..6214, 6121..6216, 6312..6416, 6316..6417, 6499..6558, 6645..6704, 6650..6703, 6665..6721, 6786..6836, 6787..6840, 6939..7019, 7473..7592, 7476..7550, 8100..8189, 8104..8196, 8292..8390, 9111..9200, 9122..9196, 9423..9467, 9908..9985		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o3.gs	Method	GENSCAN
Start	12135	End	16391
GI	none	Score	.68
Exons	12135..12163, 12290..12350, 12517..12557, 12647..12779, 12976..13040, 14284..14440, 15637..15726, 16293..16391		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o3.np	Method	AAT/NAP
Start	14207	End	16449
GI	3341691	Score	256
Exons	14207..14440, 15421..15504, 16293..16449		
GI Descrip.	(AC003672) putative heterogeneous nuclear ribonucleoprotein [Arabidopsis thaliana]		

Seq. No.	27921	Seq. ID	OJ000150_01.0124.C107
Gene No.	57580	Strand	-
Start	12135	End	16449
Name	OJ000150_01.0124.C107.o9.tm	Method	TBLASTX:Maize
Start	14219	End	16448
GI	none	Score	91
Exons	14219..14440, 15383..15532, 15628..15720, 16299..16448, 16306..16446		

Seq. No.	27922	Seq. ID	OJ000150_01.0124.C108
Gene No.	57581	Strand	-
Start	484	End	633
Name	OJ000150_01.0124.C108.o1.gs	Method	GENSCAN
Start	484	End	633
GI	none	Score	.41
Exons	484..633		

Seq. No.	27923	Seq. ID	OJ000150_00.0124.C1
Gene No.	57582	Strand	+
Start	55	End	204
Name	OJ000150_00.0124.C1.o1.gs	Method	GENSCAN

Start	55	End	204
GI	none	Score	.54
Exons	55..204		
Seq. No.	27924	Seq. ID	OJ000150_00.0124.C3
Gene No.	57583	Strand	
Start	42	End	211
Name	OJ000150_00.0124.C3.ol.tc	Method	TBLASTX:Cress
Start	42	End	211
GI	none	Score	49
Exons	42..68, 43..84, 45..71, 64..141, 70..141, 72..143, 106..207, 131..208, 131..211		
Seq. No.	27925	Seq. ID	OJ000150_00.0124.C5
Gene No.	57584	Strand	-
Start	1	End	831
Name	OJ000150_00.0124.C5.ol.np	Method	AAT/NAP
Start	1	End	831
GI	4115746	Score	297
Exons	1..160, 696..831		
GI Descrip.	(AB021736) bZIP protein [Oryza sativa]		
Seq. No.	27925	Seq. ID	OJ000150_00.0124.C5
Gene No.	57584	Strand	-
Start	1	End	831
Name	OJ000150_00.0124.C5.ol.gp	Method	AAT/GAP
Start	43	End	789
GI	463_1.R1084	Score	348
Exons	43..160, 696..789		
GI Descrip.	'1783305/dbj BAA11431  1.0e-176 (D78609) bZIP protein [Oryza sativa]'		
Seq. No.	27926	Seq. ID	OJ000150_00.0124.C7
Gene No.	57585	Strand	-
Start	389	End	466
Name	OJ000150_00.0124.C7.ol.gp	Method	AAT/GAP
Start	389	End	466
GI	9531_1.R1084	Score	100
Exons	389..466		
GI Descrip.	'5295954/dbj BAA81855.1  7.0e-37 (AB026295) hypothetical protein [Oryza sativa]'		
Seq. No.	27926	Seq. ID	OJ000150_00.0124.C7
Gene No.	57586	Strand	-
Start	478	End	874
Name	OJ000150_00.0124.C7.ol.np	Method	AAT/NAP
Start	478	End	874
GI	6552735	Score	331
Exons	478..874		
GI Descrip.	(AC013482) T26F17.17 [Arabidopsis thaliana]		
Seq. No.	27926	Seq. ID	OJ000150_00.0124.C7
Gene No.	57586	Strand	-
Start	478	End	874
Name	OJ000150_00.0124.C7.ol.ts	Method	TBLASTX:Soybean
Start	502	End	873
GI	none	Score	59

Exons 502..873, 554..691, 755..859

Seq. No.	27926	Seq. ID	OJ000150_00.0124.C7
Gene No.	57586	Strand	-
Start	478	End	874
Name	OJ000150_00.0124.C7.o1.tc	Method	TBLASTX:Cress
Start	508	End	873
GI	none	Score	91
Exons	508..729, 512..721, 760..873, 797..868		

Seq. No.	27926	Seq. ID	OJ000150_00.0124.C7
Gene No.	57586	Strand	-
Start	478	End	874
Name	OJ000150_00.0124.C7.o1.tm	Method	TBLASTX:Maize
Start	514	End	874
GI	none	Score	90
Exons	514..873, 617..730, 761..874		

Seq. No.	27926	Seq. ID	OJ000150_00.0124.C7
Gene No.	57586	Strand	-
Start	478	End	874
Name	OJ000150_00.0124.C7.o1.tw	Method	TBLASTX:Wheat
Start	535	End	873
GI	none	Score	48
Exons	535..732, 548..721, 757..873, 761..856		

Seq. No.	27927	Seq. ID	OJ000150_00.0124.C8
Gene No.	57587	Strand	-
Start	301	End	403
Name	OJ000150_00.0124.C8.o1.gp	Method	AAT/GAP
Start	301	End	403
GI	LIB3477-003-P1-K1-E9	Score	180
Exons	301..403		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	27928	Seq. ID	OJ000150_00.0124.C10
Gene No.	57588	Strand	-
Start	1	End	484
Name	OJ000150_00.0124.C10.o1.np	Method	AAT/NAP
Start	1	End	484
GI	6562256	Score	304
Exons	1..78, 207..484		
GI Descrip.	(AL132980) putative protein [Arabidopsis thaliana]		

Seq. No.	27928	Seq. ID	OJ000150_00.0124.C10
Gene No.	57588	Strand	-
Start	1	End	484
Name	OJ000150_00.0124.C10.o1.gs	Method	GENSCAN
Start	218	End	471
GI	none	Score	.97
Exons	218..471		

Seq. No.	27928	Seq. ID	OJ000150_00.0124.C10
Gene No.	57588	Strand	-
Start	1	End	484



Name	OJ000150_00.0124.C10.o1.tm	Method	TBLASTX:Maize
Start	218	End	452
GI	none	Score	272
Exons	218..451, 228..452, 228..452		
Seq. No.	27928	Seq. ID	OJ000150_00.0124.C10
Gene No.	57588	Strand	-
Start	1	End	484
Name	OJ000150_00.0124.C10.o1.ts	Method	TBLASTX:Soybean
Start	218	End	454
GI	none	Score	234
Exons	218..454, 243..434, 253..453		
Seq. No.	27928	Seq. ID	OJ000150_00.0124.C10
Gene No.	57588	Strand	-
Start	1	End	484
Name	OJ000150_00.0124.C10.o1.tc	Method	TBLASTX:Cress
Start	281	End	461
GI	none	Score	144
Exons	281..421, 282..461		
Seq. No.	27929	Seq. ID	OJ000150_00.0124.C11
Gene No.	57589	Strand	-
Start	59	End	496
Name	OJ000150_00.0124.C11.o1.gs	Method	GENSCAN
Start	59	End	496
GI	none	Score	.51
Exons	59..232, 418..496		
Seq. No.	27930	Seq. ID	OJ000150_00.0124.C13
Gene No.	57590	Strand	+
Start	300	End	372
Name	OJ000150_00.0124.C13.o1.gs	Method	GENSCAN
Start	300	End	372
GI	none	Score	.68
Exons	300..372		
Seq. No.	27931	Seq. ID	OJ000150_00.0124.C15
Gene No.	57591	Strand	+
Start	1	End	1408
Name	OJ000150_00.0124.C15.o1.np	Method	AAT/NAP
Start	1	End	1408
GI	3892050	Score	104
Exons	1..71, 205..270, 358..426, 1367..1408		
GI Descrip.	(AC002330) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	27931	Seq. ID	OJ000150_00.0124.C15
Gene No.	57591	Strand	+
Start	1	End	1408
Name	OJ000150_00.0124.C15.o1.gs	Method	GENSCAN
Start	367	End	778
GI	none	Score	.52
Exons	367..432, 770..778		
Seq. No.	27932	Seq. ID	OJ000150_00.0124.C17
Gene No.	57592	Strand	+
Start	1	End	942

Name	OJ000150_00.0124.C17.o1.np	Method	AAT/NAP
Start	1	End	942
GI	1432056	Score	314
Exons	1..227, 308..433, 763..942		
GI Descrip.	(U56834) WRKY3 [Petroselinum crispum]		

Seq. No.	27932	Seq. ID	OJ000150_00.0124.C17
Gene No.	57592	Strand	+
Start	1	End	942
Name	OJ000150_00.0124.C17.o1.gs	Method	GENSCAN
Start	89	End	931
GI	none	Score	.75
Exons	89..227, 308..399, 763..931		

Seq. No.	27932	Seq. ID	OJ000150_00.0124.C17
Gene No.	57592	Strand	+
Start	1	End	942
Name	OJ000150_00.0124.C17.o1.tc	Method	TBLASTX:Cress
Start	205	End	880
GI	none	Score	43
Exons	205..231, 290..427, 303..434, 305..430, 761..880, 763..867		

Seq. No.	27932	Seq. ID	OJ000150_00.0124.C17
Gene No.	57592	Strand	+
Start	1	End	942
Name	OJ000150_00.0124.C17.o1.tm	Method	TBLASTX:Maize
Start	288	End	886
GI	none	Score	180
Exons	288..434, 305..433, 760..873, 761..886, 812..874		

Seq. No.	27932	Seq. ID	OJ000150_00.0124.C17
Gene No.	57592	Strand	+
Start	1	End	942
Name	OJ000150_00.0124.C17.o1.tw	Method	TBLASTX:Wheat
Start	288	End	874
GI	none	Score	179
Exons	288..434, 305..433, 760..873, 761..874		

Seq. No.	27932	Seq. ID	OJ000150_00.0124.C17
Gene No.	57592	Strand	+
Start	1	End	942
Name	OJ000150_00.0124.C17.o1.ts	Method	TBLASTX:Soybean
Start	317	End	805
GI	none	Score	169
Exons	317..442, 321..437, 760..804, 761..805		

Seq. No.	27933	Seq. ID	OJ000150_00.0124.C20
Gene No.	57593	Strand	+
Start	107	End	457
Name	OJ000150_00.0124.C20.o1.tc	Method	TBLASTX:Cress
Start	104	End	327
GI	none	Score	348
Exons	104..325, 106..321, 122..325, 139..327		

Seq. No.	27933	Seq. ID	OJ000150_00.0124.C20
Gene No.	57593	Strand	+
Start	107	End	457

Name	OJ000150_00.0124.C20.o1.tm	Method	TBLASTX:Maize
Start	104	End	327
GI	none	Score	401
Exons	104..325, 106..327, 106..321		
Seq. No.	27933	Seq. ID	OJ000150_00.0124.C20
Gene No.	57593	Strand	+
Start	107	End	457
Name	OJ000150_00.0124.C20.o1.ts	Method	TBLASTX:Soybean
Start	104	End	303
GI	none	Score	351
Exons	104..301, 109..303, 139..303		
Seq. No.	27933	Seq. ID	OJ000150_00.0124.C20
Gene No.	57593	Strand	+
Start	107	End	457
Name	OJ000150_00.0124.C20.o1.np	Method	AAT/NAP
Start	107	End	457
GI	2895089	Score	341
Exons	107..457		
GI Descrip.	(AF007808) Met2-type cytosine DNA-methyltransferase [Daucus carota]		
Seq. No.	27933	Seq. ID	OJ000150_00.0124.C20
Gene No.	57593	Strand	+
Start	107	End	457
Name	OJ000150_00.0124.C20.o1.tw	Method	TBLASTX:Wheat
Start	130	End	327
GI	none	Score	367
Exons	130..324, 131..325, 131..325, 132..326, 133..327		
Seq. No.	27933	Seq. ID	OJ000150_00.0124.C20
Gene No.	57593	Strand	+
Start	107	End	457
Name	OJ000150_00.0124.C20.o1.gs	Method	GENSCAN
Start	266	End	325
GI	none	Score	.6
Exons	266..325		
Seq. No.	27934	Seq. ID	OJ000150_00.0124.C25
Gene No.	57594	Strand	-
Start	379	End	513
Name	OJ000150_00.0124.C25.o1.gs	Method	GENSCAN
Start	379	End	513
GI	none	Score	.81
Exons	379..513		
Seq. No.	27935	Seq. ID	OJ000150_00.0124.C26
Gene No.	57595	Strand	-
Start	604	End	647
Name	OJ000150_00.0124.C26.o1.gs	Method	GENSCAN
Start	604	End	647
GI	none	Score	.63
Exons	604..647		
Seq. No.	27936	Seq. ID	OJ000150_00.0124.C27
Gene No.	57596	Strand	+

Start 132  
 Name OJ000150\_00.0124.C27.ol.gs  
 Start 132  
 GI none  
 Exons 132..269

End 269  
 Method GENSCAN  
 End 269  
 Score .91

Seq. No. 27937  
 Gene No. 57597  
 Start 111  
 Name OJ000150\_00.0124.C28.ol.gs  
 Start 111  
 GI none  
 Exons 111..277

Seq. ID OJ000150\_00.0124.C28  
 Strand +  
 End 277  
 Method GENSCAN  
 End 277  
 Score .9

Seq. No. 27938  
 Gene No. 57598  
 Start 1  
 Name OJ000150\_00.0124.C29.ol.np  
 Start 1  
 GI 1946360  
 Exons 1..243

Seq. ID OJ000150\_00.0124.C29  
 Strand -  
 End 243  
 Method AAT/NAP  
 End 243  
 Score 88

GI Descrip. (U93215) unknown protein [Arabidopsis thaliana]

Seq. No. 27939  
 Gene No. 57599  
 Start 233  
 Name OJ000150\_00.0124.C36.ol.gs  
 Start 233  
 GI none  
 Exons 233..568

Seq. ID OJ000150\_00.0124.C36  
 Strand +  
 End 568  
 Method GENSCAN  
 End 568  
 Score .51

Seq. No. 27940  
 Gene No. 57600  
 Start 76  
 Name OJ000150\_00.0124.C37.ol.gs  
 Start 76  
 GI none  
 Exons 76..212

Seq. ID OJ000150\_00.0124.C37  
 Strand -  
 End 212  
 Method GENSCAN  
 End 212  
 Score .79

Seq. No. 27941  
 Gene No. 57601  
 Start 186  
 Name OJ000150\_00.0124.C38.ol.tm  
 Start 5  
 GI none  
 Exons 5..34, 34..234, 35..235, 78..236, 340..402, 344..406, 344..400, 345..401, 838..873, 857..943, 858..944, 858..944

Seq. ID OJ000150\_00.0124.C38  
 Strand -  
 End 946  
 Method TBLASTX:Maize  
 End 944  
 Score 45

Seq. No. 27941  
 Gene No. 57601  
 Start 186  
 Name OJ000150\_00.0124.C38.ol.gp  
 Start 186  
 GI 21860\_2.R1084  
 Exons 186..233, 340..403, 854..946

Seq. ID OJ000150\_00.0124.C38  
 Strand -  
 End 946  
 Method AAT/GAP  
 End 946  
 Score 370

GI Descrip. '5734462/emb|CAB52723.1| 1.0e-10 (AL109832) hypothetical protein [Schizosaccharomyces pombe] >gi\_5912375\_emb\_CAB55874.1\_ (Z66568)

hypothetical protein [Schizosaccharomyces pombe]

Seq. No.	27942	Seq. ID	OJ000150_00.0124.C39
Gene No.	57602	Strand	+
Start	155	End	253
Name	OJ000150_00.0124.C39.o1.gp	Method	AAT/GAP
Start	155	End	253
GI	463_1.R1084	Score	143
Exons	155..253		
GI Descrip.	'1783305/dbj BAA11431  1.0e-176 (D78609) bZIP protein [Oryza sativa]'		

Seq. No.	27942	Seq. ID	OJ000150_00.0124.C39
Gene No.	57603	Strand	-
Start	1	End	663
Name	OJ000150_00.0124.C39.o1.np	Method	AAT/NAP
Start	1	End	663
GI	4115746	Score	92
Exons	1..30, 156..257, 625..663		
GI Descrip.	(AB021736) bZIP protein [Oryza sativa]		

Seq. No.	27942	Seq. ID	OJ000150_00.0124.C39
Gene No.	57603	Strand	-
Start	1	End	663
Name	OJ000150_00.0124.C39.o1.gs	Method	GENSCAN
Start	158	End	251
GI	none	Score	.89
Exons	158..251		

Seq. No.	27943	Seq. ID	OJ000150_00.0124.C42
Gene No.	57604	Strand	-
Start	26	End	310
Name	OJ000150_00.0124.C42.o1.gs	Method	GENSCAN
Start	26	End	310
GI	none	Score	.46
Exons	26..310		

Seq. No.	27944	Seq. ID	OJ000150_00.0124.C47
Gene No.	57605	Strand	+
Start	224	End	700
Name	OJ000150_00.0124.C47.o1.gp	Method	AAT/GAP
Start	224	End	700
GI	none	Score	882
Exons	224..700		

Seq. No.	27944	Seq. ID	OJ000150_00.0124.C47
Gene No.	57606	Strand	-
Start	128	End	340
Name	OJ000150_00.0124.C47.o1.gs	Method	GENSCAN
Start	128	End	340
GI	none	Score	.92
Exons	128..340		

Seq. No.	27945	Seq. ID	OJ000150_00.0124.C48
Gene No.	57607	Strand	-
Start	1	End	2282
Name	OJ000150_00.0124.C48.o1.gp	Method	AAT/GAP

Start	1	End	2055
GI	463_1.R1084	Score	1801
Exons	1..538, 742..867, 956..1031, 1835..2055		
GI Descrip.	'1783305/dbj BAA11431  1.0e-176 (D78609) bZIP protein [Oryza sativa]'		

Seq. No.	27945	Seq. ID	OJ000150_00.0124.C48
Gene No.	57607	Strand	-
Start	1	End	2282
Name	OJ000150_00.0124.C48.ol.tm	Method	TBLASTX:Maize
Start	87	End	2020
GI	none	Score	200
Exons	87..104, 159..302, 164..544, 206..331, 372..539, 387..548, 395..541, 739..870, 739..870, 740..871, 740..871, 930..1034, 946..1038, 955..1032, 1827..2000, 1833..2000, 1894..2001, 1997..2020		

Seq. No.	27945	Seq. ID	OJ000150_00.0124.C48
Gene No.	57607	Strand	-
Start	1	End	2282
Name	OJ000150_00.0124.C48.ol.np	Method	AAT/NAP
Start	179	End	2282
GI	4115746	Score	1137
Exons	179..538, 742..867, 956..1031, 1835..2038, 2237..2282		
GI Descrip.	(AB021736) bZIP protein [Oryza sativa]		

Seq. No.	27945	Seq. ID	OJ000150_00.0124.C48
Gene No.	57607	Strand	-
Start	1	End	2282
Name	OJ000150_00.0124.C48.ol.ts	Method	TBLASTX:Soybean
Start	194	End	1034
GI	none	Score	93
Exons	194..349, 195..275, 377..430, 447..539, 448..498, 488..544, 739..870, 739..870, 783..893, 817..870, 927..1034, 927..1034, 955..1032, 955..1032		

Seq. No.	27945	Seq. ID	OJ000150_00.0124.C48
Gene No.	57607	Strand	-
Start	1	End	2282
Name	OJ000150_00.0124.C48.ol.gs	Method	GENSCAN
Start	208	End	2007
GI	none	Score	.83
Exons	208..538, 742..867, 956..1031, 1835..2007		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57608	Strand	-
Start	554	End	1164
Name	OJ000150_00.0124.C49.ol.np	Method	AAT/NAP
Start	554	End	1001
GI	1783305	Score	713
Exons	554..1001		
GI Descrip.	(D78609) bZIP protein [Oryza sativa]		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57608	Strand	-
Start	554	End	1164
Name	OJ000150_00.0124.C49.ol.gp	Method	AAT/GAP

Start	578	End	1164
GI	463_1.R1084	Score	1137
Exons	578..1164		
GI Descrip.	'1783305/dbj BAA11431  1.0e-176 (D78609) bZIP protein [Oryza sativa]'		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.o3.tm	Method	TBLASTX:Maize
Start	552	End	1001
GI	none	Score	125
Exons	552..656, 553..663, 774..848, 786..818, 805..849, 942..1001, 957..1001		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.o2.ts	Method	TBLASTX:Soybean
Start	4250	End	4747
GI	none	Score	128
Exons	4250..4399, 4263..4400, 4474..4539, 4475..4534, 4658..4747, 4662..4736		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.o2.tm	Method	TBLASTX:Maize
Start	4254	End	5222
GI	none	Score	175
Exons	4254..4400, 4262..4402, 4262..4399, 4474..4539, 4478..4537, 4481..4546, 4655..4720, 4655..4747, 4656..4736, 5123..5221, 5124..5222		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.o2.np	Method	AAT/NAP
Start	4262	End	6625
GI	3892048	Score	731
Exons	4262..4396, 4477..4536, 4658..4735, 5123..5200, 5375..5451, 6130..6304, 6391..6625		
GI Descrip.	(AC002330) putative tryptophan synthase alpha 1-like protein [Arabidopsis thaliana]		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.o2.gs	Method	GENSCAN
Start	4262	End	6537
GI	none	Score	.93
Exons	4262..4396, 4477..4536, 4658..4735, 6173..6304, 6391..6537		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.o2.tc	Method	TBLASTX:Cress

Start	4268	End	4539
GI	none	Score	104
Exons	4268..4399, 4272..4400, 4474..4539, 4475..4534		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.ol.tm	Method	TBLASTX:Maize
Start	5360	End	6565
GI	none	Score	112
Exons	5360..5452, 5363..5452, 6128..6307, 6129..6308, 6130..6309, 6130..6309, 6379..6558, 6383..6553, 6383..6565, 6390..6554, 6391..6558		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.ol.tc	Method	TBLASTX:Cress
Start	5372	End	6540
GI	none	Score	66
Exons	5372..5452, 5373..5453, 6128..6286, 6129..6278, 6131..6280, 6382..6540, 6395..6535		

Seq. No.	27946	Seq. ID	OJ000150_00.0124.C49
Gene No.	57609	Strand	-
Start	4262	End	6625
Name	OJ000150_00.0124.C49.ol.ts	Method	TBLASTX:Soybean
Start	6128	End	6540
GI	none	Score	132
Exons	6128..6307, 6129..6305, 6367..6540, 6382..6519, 6395..6535		

Seq. No.	27947	Seq. ID	OJ000150_00.0124.C50
Gene No.	57610	Strand	+
Start	102	End	236
Name	OJ000150_00.0124.C50.ol.gs	Method	GENSCAN
Start	102	End	236
GI	none	Score	.85
Exons	102..236		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57611	Strand	-
Start	60	End	125
Name	OJ000150_00.0124.C51.ol.gp	Method	AAT/GAP
Start	60	End	125
GI	9531_1.R1084	Score	65
Exons	60..125		

GI Descrip. '5295954/dbj|BAA81855.1| 7.0e-37 (AB026295) hypothetical protein [Oryza sativa]'

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.ol.np	Method	AAT/NAP
Start	143	End	4405
GI	5295971	Score	3565
Exons	143..4405		

GI Descrip. (AB026295) EST D24315(R1718) corresponds to a region of the



predicted gene.; Similar to Tobacco DNA for retroviral-like  
transposon Tnt 1-94. (X13777) [Oryza sativa]

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o3.ts	Method	TBLASTX:Soybean
Start	161	End	811
GI	none	Score	59
Exons	161..625, 213..350, 414..620, 650..811		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o1.gs	Method	GENSCAN
Start	164	End	3469
GI	none	Score	.91
Exons	164..439, 536..3133, 3257..3469		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o1.tc	Method	TBLASTX:Cress
Start	167	End	841
GI	none	Score	91
Exons	167..388, 171..380, 419..541, 456..539, 536..841		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o7.tm	Method	TBLASTX:Maize
Start	173	End	391
GI	none	Score	74
Exons	173..382, 173..391, 276..389		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o4.tw	Method	TBLASTX:Wheat
Start	194	End	641
GI	none	Score	48
Exons	194..391, 207..380, 416..619, 420..641		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o2.tm	Method	TBLASTX:Maize
Start	419	End	871
GI	none	Score	271
Exons	419..871, 447..842, 650..871		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o6.tw	Method	TBLASTX:Wheat
Start	653	End	955
GI	none	Score	60

Exons 653..832, 857..955

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o5.tm	Method	TBLASTX:Maize
Start	872	End	1120
GI	none	Score	40
Exons	872..925, 875..1120, 876..935, 960..1118, 974..1120		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o2.tw	Method	TBLASTX:Wheat
Start	980	End	1520
GI	none	Score	67
Exons	980..1183, 1175..1519, 1293..1364, 1389..1520		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o2.ts	Method	TBLASTX:Soybean
Start	1190	End	1688
GI	5509260	Score	34
Exons	1190..1687, 1198..1314, 1293..1367, 1398..1688		
GI Descrip.	-		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o3.tc	Method	TBLASTX:Cress
Start	1301	End	1567
GI	none	Score	138
Exons	1301..1567, 1320..1565		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o3.tm	Method	TBLASTX:Maize
Start	1340	End	1661
GI	none	Score	251
Exons	1340..1648, 1341..1661, 1359..1655		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o1.ts	Method	TBLASTX:Soybean
Start	2030	End	2533
GI	none	Score	154
Exons	2030..2533, 2238..2528		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o2.tc	Method	TBLASTX:Cress
Start	2075	End	2521
GI	none	Score	294

Exons 2075..2521

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o1.tm	Method	TBLASTX:Maize
Start	2135	End	2546
GI	none	Score	57
Exons	2135..2206, 2148..2198, 2213..2545, 2220..2546		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o1.tw	Method	TBLASTX:Wheat
Start	2135	End	2767
GI	none	Score	326
Exons	2135..2212, 2207..2296, 2303..2767		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o4.ts	Method	TBLASTX:Soybean
Start	2570	End	2902
GI	none	Score	61
Exons	2570..2902, 2636..2878, 2726..2806		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o3.tw	Method	TBLASTX:Wheat
Start	2840	End	3292
GI	none	Score	157
Exons	2840..2926, 2927..3292, 3021..3278		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o4.tm	Method	TBLASTX:Maize
Start	2906	End	3307
GI	none	Score	44
Exons	2906..3055, 2913..3005, 3095..3304, 3126..3305, 3140..3307		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o5.tw	Method	TBLASTX:Wheat
Start	3857	End	4225
GI	none	Score	75
Exons	3857..4177, 3893..4225, 4056..4178		

Seq. No.	27948	Seq. ID	OJ000150_00.0124.C51
Gene No.	57612	Strand	-
Start	143	End	4405
Name	OJ000150_00.0124.C51.o6.tm	Method	TBLASTX:Maize
Start	4073	End	4361
GI	none	Score	142
Exons	4073..4360, 4074..4361		

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57613	Strand	-
Start	701	End	5928
Name	OJ000150_00.0124.C52.o1.gs	Method	GENSCAN
Start	701	End	5928
GI	none	Score	.66
Exons	701..909, 1320..1410, 3411..3548, 3657..3734, 3851..3927, 4807..5128, 5208..5357, 5371..5487, 5686..5892, 5926..5928		

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57613	Strand	-
Start	701	End	5928
Name	OJ000150_00.0124.C52.o1.np	Method	AAT/NAP
Start	3152	End	5444
GI	1174783	Score	804
Exons	3152..3283, 3411..3548, 3657..3734, 3851..3936, 4828..5444		
GI Descrip.	TRYPTOPHAN SYNTHASE ALPHA CHAIN PRECURSOR gi 1362207 pir  S56665 tryptophan synthase (EC 4.2.1.20) alpha chain - maize gi 440171 emb CAA54131  (X76713) tryptophan synthase, alpha subunit [Zea mays]		

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57614	Strand	-
Start	6307	End	7496
Name	OJ000150_00.0124.C52.o1.tm	Method	TBLASTX:Maize
Start	3134	End	5248
GI	none	Score	94
Exons	3134..3226, 3150..3230, 3203..3286, 3207..3287, 3408..3548, 3412..3549, 3640..3735, 3645..3734, 3658..3738, 3848..3934, 3849..3953, 4829..5131, 4841..5131, 4854..5147, 5210..5248		

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57614	Strand	-
Start	6307	End	7496
Name	OJ000150_00.0124.C52.o2.tc	Method	TBLASTX:Cress
Start	3137	End	3503
GI	none	Score	34
Exons	3137..3169, 3155..3286, 3159..3287, 3407..3463, 3408..3503, 3409..3492		

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57614	Strand	-
Start	6307	End	7496
Name	OJ000150_00.0124.C52.o2.ts	Method	TBLASTX:Soybean
Start	3146	End	3699
GI	none	Score	135
Exons	3146..3286, 3147..3287, 3408..3548, 3409..3549, 3648..3698, 3652..3699		

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57614	Strand	-
Start	6307	End	7496
Name	OJ000150_00.0124.C52.o1.tw	Method	TBLASTX:Wheat
Start	3480	End	3930
GI	none	Score	89
Exons	3480..3548, 3487..3549, 3640..3735, 3645..3734, 3649..3738,		

3848..3928, 3849..3929, 3853..3930

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57614	Strand	-
Start	6307	End	7496
Name	OJ000150_00.0124.C52.o1.tc	Method	TBLASTX:Cress
Start	3657	End	5131
GI	none	Score	79
Exons	3657..3734, 3658..3735, 3848..3934, 3849..3935, 4805..4939, 4806..4931, 4968..5021, 4982..5131, 5021..5113		

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57614	Strand	-
Start	6307	End	7496
Name	OJ000150_00.0124.C52.o1.ts	Method	TBLASTX:Soybean
Start	4805	End	5131
GI	none	Score	146
Exons	4805..5131, 4806..5126		

Seq. No.	27949	Seq. ID	OJ000150_00.0124.C52
Gene No.	57614	Strand	-
Start	6307	End	7496
Name	OJ000150_00.0124.C52.o2.np	Method	AAT/NAP
Start	6307	End	7496
GI	6069646	Score	92
Exons	6307..6437, 7417..7496		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57615	Strand	-
Start	1102	End	8341
Name	OJ000150_00.0124.C53.o1.gs	Method	GENSCAN
Start	1102	End	5263
GI	none	Score	.86
Exons	1102..1175, 1336..1477, 3019..3156, 3253..3330, 3440..3516, 4717..5263		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57615	Strand	-
Start	1102	End	8341
Name	OJ000150_00.0124.C53.o1.gp	Method	AAT/GAP
Start	2518	End	3132
GI	3762820	Score	988
Exons	2518..2919, 3019..3132		
GI Descrip.	1174783/sp P42390 TRPA MAIZE 4.0e-31 TRYPTOPHAN SYNTHASE ALPHA CHAIN PRECURSOR >gi_1362207_pir_S56665 tryptophan synthase (EC 4.2.1.20) alpha chain - maize >gi_440171_emb_CAA54131_ (X76713) tryptophan synthase, alpha subunit [Zea mays]		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57615	Strand	-
Start	1102	End	8341
Name	OJ000150_00.0124.C53.o1.np	Method	AAT/NAP

Start	2788	End	5348
GI	1174783	Score	852
Exons	2788..2919, 3019..3156, 3253..3330, 3440..3525, 4738..5348		
GI Descrip.	TRYPTOPHAN SYNTHASE ALPHA CHAIN PRECURSOR gi 1362207 pir S56665 tryptophan synthase (EC 4.2.1.20) alpha chain - maize gi 440171 emb CAA54131  (X76713) tryptophan synthase, alpha subunit [Zea mays]		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57615	Strand	-
Start	1102	End	8341
Name	OJ000150_00.0124.C53.o2.np	Method	AAT/NAP
Start	4836	End	8341
GI	6721512	Score	50
Exons	4836..5047, 6175..6299, 8300..8341		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57615	Strand	-
Start	1102	End	8341
Name	OJ000150_00.0124.C53.o2.gp	Method	AAT/GAP
Start	4970	End	5381
GI	3762819	Score	775
Exons	4970..5381		
GI Descrip.	440170/emb X76713 ZMTRPA 1.0e-19 Z.mays (C6000237) trpA gene		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o2.ts	Method	TBLASTX:Soybean
Start	2779	End	15238
GI	none	Score	132
Exons	2779..2922, 2783..2923, 2822..2944, 2992..3051, 3016..3165, 3017..3184, 3250..3294, 14704..14844, 14715..14843, 14942..15091, 14943..15122, 15185..15238		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o1.tm	Method	TBLASTX:Maize
Start	2781	End	16053
GI	none	Score	90
Exons	2781..2858, 2785..2862, 2786..2866, 2839..2922, 2843..2923, 2856..2927, 2861..2926, 3010..3165, 3020..3157, 3043..3165, 3250..3330, 3250..3330, 3416..3523, 3438..3560, 4739..5110, 4764..5078, 14702..14779, 14707..14784, 14715..14783, 14760..14843, 14764..14844, 14782..14847, 14942..15091, 14946..15122, 15191..15274, 15192..15299, 15195..15275, 15368..15460, 15375..15461, 15852..16052, 15877..16053		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o2.tc	Method	TBLASTX:Cress
Start	2791	End	15037
GI	none	Score	124
Exons	2791..2922, 2795..2923, 3008..3100, 3010..3108, 3010..3111,		

14715..14843, 14716..14844, 14942..15037, 14943..15026

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o1.tw	Method	TBLASTX:Wheat
Start	3088	End	15455
GI	none	Score	72
Exons	3088..3153, 3088..3165, 3095..3166, 3248..3301, 3250..3330, 3250..3330, 3425..3517, 3438..3518, 15014..15079, 15014..15091, 15021..15122, 15191..15274, 15192..15278, 15195..15290, 15368..15454, 15375..15455		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o1.tc	Method	TBLASTX:Cress
Start	3253	End	16052
GI	none	Score	60
Exons	3253..3330, 3425..3550, 4715..4852, 4716..4847, 4892..5098, 4893..4931, 5004..5075, 15197..15274, 15198..15275, 15368..15460, 15375..15461, 15825..15965, 16017..16052		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o1.ts	Method	TBLASTX:Soybean
Start	4715	End	16052
GI	none	Score	168
Exons	4715..5113, 4716..5078, 15825..16052, 15829..15957		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o2.tm	Method	TBLASTX:Maize
Start	5641	End	7496
GI	none	Score	316
Exons	5641..6009, 5644..5826, 5691..5999, 7428..7496		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o3.gs	Method	GENSCAN
Start	12469	End	15968
GI	none	Score	.87
Exons	12469..12483, 13720..13929, 13941..14096, 14945..15082, 15197..15274, 15377..15453, 15830..15968		

Seq. No.	27950	Seq. ID	OJ000150_00.0124.C53
Gene No.	57616	Strand	-
Start	12469	End	16054
Name	OJ000150_00.0124.C53.o3.np	Method	AAT/NAP
Start	14709	End	16054
GI	1174783	Score	627
Exons	14709..14840, 14945..15082, 15197..15274, 15377..15462, 15851..16054		

GI Descrip. TRYPTOPHAN SYNTHASE ALPHA CHAIN PRECURSOR gi|1362207|pir||S56665

tryptophan synthase (EC 4.2.1.20) alpha chain - maize  
gi|440171|emb|CAA54131| (X76713) tryptophan synthase, alpha  
subunit [Zea mays]

Seq. No.	27951	Seq. ID	OJ000150_00.0124.C54
Gene No.	57617	Strand	+
Start	5	End	1133
Name	OJ000150_00.0124.C54.o1.gs	Method	GENSCAN
Start	5	End	1133
GI	none	Score	.67
Exons	5..329, 1045..1133		

Seq. No.	27951	Seq. ID	OJ000150_00.0124.C54
Gene No.	57618	Strand	+
Start	2853	End	7242
Name	OJ000150_00.0124.C54.o1.np	Method	AAT/NAP
Start	2853	End	7242
GI	3892050	Score	273
Exons	2853..2892, 5581..5703, 6498..6563, 6923..6988, 7076..7242		
GI Descrip.	(AC002330) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27951	Seq. ID	OJ000150_00.0124.C54
Gene No.	57618	Strand	+
Start	2853	End	7242
Name	OJ000150_00.0124.C54.o1.gp	Method	AAT/GAP
Start	5838	End	5950
GI	LIB3434-041-P1-K1-E3	Score	182
Exons	5838..5950		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 1.0e-39 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	27951	Seq. ID	OJ000150_00.0124.C54
Gene No.	57619	Strand	-
Start	1798	End	6497
Name	OJ000150_00.0124.C54.o2.gs	Method	GENSCAN
Start	1798	End	6497
GI	none	Score	.59
Exons	1798..1929, 2126..2208, 2244..2316, 4743..4921, 4943..5380, 5410..5530, 6395..6497		

Seq. No.	27952	Seq. ID	OJ000150_00.0124.C55
Gene No.	57620	Strand	+
Start	1	End	1232
Name	OJ000150_00.0124.C55.o1.np	Method	AAT/NAP
Start	1	End	1232
GI	3892050	Score	214
Exons	1..192, 1032..1232		
GI Descrip.	(AC002330) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27952	Seq. ID	OJ000150_00.0124.C55
Gene No.	57621	Strand	+
Start	4900	End	7180
Name	OJ000150_00.0124.C55.o3.tm	Method	TBLASTX:Maize
Start	1005	End	1181
GI	none	Score	89
Exons	1005..1082, 1034..1084, 1083..1181, 1085..1180		



Seq. No.	27952	Seq. ID	OJ000150_00.0124.C55
Gene No.	57621	Strand	+
Start	4900	End	7180
Name	OJ000150_00.0124.C55.o1.ts	Method	TBLASTX:Soybean
Start	1006	End	1235
GI	none	Score	255
Exons	1006..1155, 1008..1235, 1022..1171		

Seq. No.	27952	Seq. ID	OJ000150_00.0124.C55
Gene No.	57621	Strand	+
Start	4900	End	7180
Name	OJ000150_00.0124.C55.o1.tw	Method	TBLASTX:Wheat
Start	1043	End	1408
GI	none	Score	302
Exons	1043..1237, 1044..1259, 1045..1251, 1339..1407, 1340..1408		

Seq. No.	27952	Seq. ID	OJ000150_00.0124.C55
Gene No.	57621	Strand	+
Start	4900	End	7180
Name	OJ000150_00.0124.C55.o1.tm	Method	TBLASTX:Maize
Start	1225	End	1647
GI	none	Score	35
Exons	1225..1254, 1225..1254, 1295..1345, 1296..1352, 1299..1346, 1342..1389, 1351..1389, 1352..1390, 1388..1411, 1390..1410, 1417..1497, 1418..1498, 1493..1519, 1499..1609, 1516..1614, 1558..1611, 1592..1645, 1618..1647, 1621..1647		

Seq. No.	27952	Seq. ID	OJ000150_00.0124.C55
Gene No.	57621	Strand	+
Start	4900	End	7180
Name	OJ000150_00.0124.C55.o2.gs	Method	GENSCAN
Start	4900	End	7168
GI	none	Score	.65
Exons	4900..5055, 5460..5515, 5695..5869, 6159..6288, 6391..6503, 6815..6953, 7103..7168		

Seq. No.	27952	Seq. ID	OJ000150_00.0124.C55
Gene No.	57621	Strand	+
Start	4900	End	7180
Name	OJ000150_00.0124.C55.o2.gp	Method	AAT/GAP
Start	4904	End	7180
GI	21860_2.R1084	Score	1128
Exons	4904..5055, 6159..6288, 6391..6503, 6815..6953, 7103..7180		
GI Descrip.	'5734462/emb CAB52723.1  1.0e-10 (AL109832) hypothetical protein [Schizosaccharomyces pombe] >gi_5912375_emb_CAB55874.1_(Z66568) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	27952	Seq. ID	OJ000150_00.0124.C55
Gene No.	57621	Strand	+
Start	4900	End	7180
Name	OJ000150_00.0124.C55.o2.tm	Method	TBLASTX:Maize
Start	6468	End	7117
GI	none	Score	71
Exons	6468..6545, 6470..6511, 6757..6855, 6799..6981, 6803..6970, 7082..7117, 7085..7117		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
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Gene No.	57622	Strand	+
Start	176	End	393
Name	OJ000150_00.0124.C56.o1.gp	Method	AAT/GAP
Start	176	End	393
GI	21860_2.R1084	Score	183
Exons	176..239, 346..393		
GI Descrip.	'5734462/emb CAB52723.1  1.0e-10 (AL109832) hypothetical protein [Schizosaccharomyces pombe] >gi_5912375_emb_CAB55874.1_ (Z66568) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
Gene No.	57623	Strand	+
Start	346	End	2907
Name	OJ000150_00.0124.C56.o1.gs	Method	GENSCAN
Start	346	End	2907
GI	none	Score	.58
Exons	346..585, 2740..2907		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
Gene No.	57623	Strand	+
Start	346	End	2907
Name	OJ000150_00.0124.C56.o2.gp	Method	AAT/GAP
Start	405	End	517
GI	3107753	Score	214
Exons	405..517		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
Gene No.	57623	Strand	+
Start	346	End	2907
Name	OJ000150_00.0124.C56.o3.gp	Method	AAT/GAP
Start	1125	End	1369
GI	none	Score	442
Exons	1125..1369		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
Gene No.	57624	Strand	+
Start	5886	End	6308
Name	OJ000150_00.0124.C56.o3.gs	Method	GENSCAN
Start	5886	End	6308
GI	none	Score	.66
Exons	5886..6017, 6039..6308		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
Gene No.	57625	Strand	-
Start	2999	End	3455
Name	OJ000150_00.0124.C56.o4.gp	Method	AAT/GAP
Start	2999	End	3455
GI	84801_1.R1084	Score	826
Exons	2999..3455		
GI Descrip.	'2982268 1.0e-46 (AF051217) probable 40S ribosomal protein S15 [Picea mariana]'		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
Gene No.	57626	Strand	-
Start	3475	End	4669
Name	OJ000150_00.0124.C56.o1.np	Method	AAT/NAP
Start	3460	End	4258

GI 4887012 Score 283  
 Exons 3460..3532, 3626..3833, 3891..3973, 4105..4258  
 GI Descrip. (AF123504) Nt-iaa2.3 deduced protein [Nicotiana tabacum]

Seq. No. 27953 Seq. ID OJ000150\_00.0124.C56  
 Gene No. 57626 Strand -  
 Start 3475 End 4669  
 Name OJ000150\_00.0124.C56.o2.gs Method GENSCAN  
 Start 3475 End 4669  
 GI none Score .69  
 Exons 3475..3532, 3626..3931, 4057..4191, 4482..4669

Seq. No. 27953 Seq. ID OJ000150\_00.0124.C56  
 Gene No. 57627 Strand -  
 Start 13016 End 17595  
 Name OJ000150\_00.0124.C56.o2.tm Method TBLASTX:Maize  
 Start 173 End 544  
 GI none Score 83  
 Exons 173..235, 177..239, 179..235, 343..537, 344..544

Seq. No. 27953 Seq. ID OJ000150\_00.0124.C56  
 Gene No. 57627 Strand -  
 Start 13016 End 17595  
 Name OJ000150\_00.0124.C56.o1.tw Method TBLASTX:Wheat  
 Start 3473 End 3811  
 GI none Score 58  
 Exons 3473..3532, 3475..3531, 3625..3675, 3625..3675, 3718..3798, 3718..3810, 3764..3811

Seq. No. 27953 Seq. ID OJ000150\_00.0124.C56  
 Gene No. 57627 Strand -  
 Start 13016 End 17595  
 Name OJ000150\_00.0124.C56.o1.tm Method TBLASTX:Maize  
 Start 3475 End 3960  
 GI none Score 66  
 Exons 3475..3531, 3476..3532, 3625..3675, 3625..3675, 3718..3840, 3718..3864, 3917..3955, 3919..3960

Seq. No. 27953 Seq. ID OJ000150\_00.0124.C56  
 Gene No. 57627 Strand -  
 Start 13016 End 17595  
 Name OJ000150\_00.0124.C56.o1.tc Method TBLASTX:Cress  
 Start 3478 End 3972  
 GI none Score 68  
 Exons 3478..3531, 3625..3675, 3727..3849, 3770..3826, 3916..3972, 3923..3961

Seq. No. 27953 Seq. ID OJ000150\_00.0124.C56  
 Gene No. 57627 Strand -  
 Start 13016 End 17595  
 Name OJ000150\_00.0124.C56.o1.ts Method TBLASTX:Soybean  
 Start 3481 End 3975  
 GI none Score 72  
 Exons 3481..3531, 3625..3675, 3718..3837, 3779..3832, 3922..3975, 3932..3973

Seq. No. 27953 Seq. ID OJ000150\_00.0124.C56

Gene No.	57627	Strand	-
Start	13016	End	17595
Name	OJ000150_00.0124.C56.o2.tc	Method	TBLASTX:Cress
Start	5031	End	5201
GI	none	Score	47
Exons	5031..5057, 5032..5058, 5034..5060, 5059..5130, 5060..5131, 5061..5132, 5095..5196, 5097..5201, 5120..5200		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
Gene No.	57627	Strand	-
Start	13016	End	17595
Name	OJ000150_00.0124.C56.o2.np	Method	AAT/NAP
Start	13016	End	17595
GI	2589164	Score	697
Exons	13016..13216, 13389..13557, 14016..14066, 16477..16528, 16642..16742, 16929..17337, 17567..17595		
GI Descrip.	(D88452) aldehyde oxidase-2 [Zea mays]		

Seq. No.	27953	Seq. ID	OJ000150_00.0124.C56
Gene No.	57627	Strand	-
Start	13016	End	17595
Name	OJ000150_00.0124.C56.o3.tm	Method	TBLASTX:Maize
Start	13061	End	17289
GI	none	Score	43
Exons	13061..13105, 13061..13090, 13092..13130, 13113..13217, 13114..13218, 13364..13468, 13390..13467, 13469..13555, 13470..13556, 14017..14076, 14018..14086, 16475..16531, 16475..16528, 16639..16740, 16640..16741, 17009..17068, 17010..17054, 17056..17103, 17058..17102, 17064..17165, 17118..17198, 17119..17199, 17199..17288, 17200..17289		

Seq. No.	27954	Seq. ID	OJ000150_00.0124.C57
Gene No.	57628	Strand	-
Start	1	End	1390
Name	OJ000150_00.0124.C57.o1.np	Method	AAT/NAP
Start	1	End	540
GI	119714	Score	111
Exons	1..336, 427..540		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi 82169 pir  S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi 19867 emb CAA32090  (X13885) extensin (AA 1-620) [Nicotiana tabacum]		

Seq. No.	27954	Seq. ID	OJ000150_00.0124.C57
Gene No.	57628	Strand	-
Start	1	End	1390
Name	OJ000150_00.0124.C57.o1.gs	Method	GENSCAN
Start	45	End	1390
GI	none	Score	.62
Exons	45..369, 735..980, 1310..1390		

Seq. No.	27955	Seq. ID	OJ000150_00.0124.C58
Gene No.	57629	Strand	+
Start	84	End	209
Name	OJ000150_00.0124.C58.o1.gs	Method	GENSCAN
Start	84	End	209
GI	none	Score	.74

Exons 84..209

Seq. No. 27955 Seq. ID OJ000150\_00.0124.C58  
Gene No. 57630 Strand +  
Start 2128 End 6517  
Name OJ000150\_00.0124.C58.o1.np Method AAT/NAP  
Start 2128 End 6517  
GI 1946361 Score 426  
Exons 2128..2233, 3463..3562, 4255..4606, 5171..5513, 5603..5653,  
5738..5810, 6344..6517  
GI Descrip. (U93215) putative C3HC4 zinc finger protein [Arabidopsis  
thaliana]

Seq. No. 27955 Seq. ID OJ000150\_00.0124.C58  
Gene No. 57630 Strand +  
Start 2128 End 6517  
Name OJ000150\_00.0124.C58.o1.tm Method TBLASTX:Maize  
Start 3461 End 5415  
GI none Score 91  
Exons 3461..3562, 3461..3562, 3462..3563, 4249..4488, 4251..4466,  
4253..4468, 5172..5279, 5173..5238, 5326..5415, 5334..5408

Seq. No. 27956 Seq. ID OJ000150\_00.0124.C59  
Gene No. 57631 Strand -  
Start 495 End 907  
Name OJ000150\_00.0124.C59.o1.gs Method GENSCAN  
Start 495 End 907  
GI none Score .48  
Exons 495..907

Seq. No. 27957 Seq. ID OJ000150\_00.0124.C60  
Gene No. 57632 Strand +  
Start 997 End 6973  
Name OJ000150\_00.0124.C60.o1.gs Method GENSCAN  
Start 997 End 6949  
GI none Score .97  
Exons 997..2458, 2705..4184, 4295..4459, 4569..4761, 4839..4950,  
5039..5186, 5288..5485, 5571..5849, 5949..6110, 6267..6299,  
6350..6427, 6818..6949

Seq. No. 27957 Seq. ID OJ000150\_00.0124.C60  
Gene No. 57632 Strand +  
Start 997 End 6973  
Name OJ000150\_00.0124.C60.o1.np Method AAT/NAP  
Start 1008 End 6973  
GI 3132825 Score 5671  
Exons 1008..2458, 2705..4184, 4295..4459, 4569..4761, 4839..4950,  
5039..5186, 5288..5485, 5571..5849, 5949..6110, 6209..6427,  
6818..6973  
GI Descrip. (AF063403) putative cytosine-5 DNA methyltransferase [Zea mays]

Seq. No. 27957 Seq. ID OJ000150\_00.0124.C60  
Gene No. 57633 Strand -  
Start 7794 End 11319  
Name OJ000150\_00.0124.C60.o1.tc Method TBLASTX:Cress  
Start 1128 End 6951  
GI none Score 116

Exons 1128..1262, 1160..1207, 1278..1706, 1286..1546, 1574..1702,  
 1703..1906, 1707..1844, 1968..2123, 2005..2142, 2121..2309,  
 2142..2300, 2147..2323, 2340..2429, 2357..2416, 2423..2461,  
 2424..2459, 2705..3157, 2706..3140, 2927..3142, 3111..3194,  
 3344..3445, 3348..3473, 3350..3481, 3432..3710, 3495..3875,  
 3551..3886, 3765..3875, 4005..4067, 4073..4192, 4074..4187,  
 4283..4462, 4598..4750, 4671..4766, 4837..4947, 4838..4951,  
 5018..5185, 5046..5186, 5284..5484, 5287..5487, 5288..5488,  
 5562..5828, 5570..5692, 5570..5836, 5571..5828, 5768..5830,  
 5946..6113, 5948..6112, 5971..6123, 6031..6123, 6206..6427,  
 6208..6423, 6224..6427, 6241..6429, 6812..6946, 6814..6951,  
 6817..6942

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o5.tm	Method	TBLASTX:Maize
Start	2145	End	2279
GI	none	Score	192
Exons	2145..2279, 2148..2279		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o2.tm	Method	TBLASTX:Maize
Start	2857	End	3334
GI	none	Score	254
Exons	2857..3222, 2858..3187, 2859..3230, 2904..3188, 3305..3334		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o4.tm	Method	TBLASTX:Maize
Start	3709	End	4147
GI	none	Score	86
Exons	3709..3840, 3761..3877, 3762..3875, 3861..4145, 3879..4145, 3914..4147, 4076..4147		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o4.ts	Method	TBLASTX:Soybean
Start	4004	End	4378
GI	none	Score	173
Exons	4004..4060, 4005..4187, 4103..4186, 4283..4378, 4283..4372		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o3.tm	Method	TBLASTX:Maize
Start	4328	End	4951
GI	none	Score	161
Exons	4328..4462, 4328..4459, 4559..4762, 4566..4766, 4621..4770, 4826..4951, 4826..4945, 4837..4950		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-

Start	7794	End	11319
Name	OJ000150_00.0124.C60.o1.ts	Method	TBLASTX:Soybean
Start	4859	End	5656
GI	none	Score	137
Exons	4859..4951, 4861..4947, 5018..5182, 5037..5201, 5039..5095, 5046..5186, 5144..5194, 5286..5486, 5287..5487, 5287..5478, 5288..5488, 5567..5656, 5570..5641, 5571..5651		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o1.tm	Method	TBLASTX:Maize
Start	5039	End	6946
GI	none	Score	220
Exons	5039..5185, 5040..5201, 5046..5186, 5284..5484, 5288..5488, 5568..5837, 5569..5685, 5570..5842, 5571..5849, 5743..5877, 5936..6112, 5943..6113, 6206..6427, 6206..6418, 6208..6429, 6208..6423, 6805..6930, 6812..6946, 6814..6936, 6815..6937		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o3.ts	Method	TBLASTX:Soybean
Start	5661	End	6056
GI	none	Score	239
Exons	5661..5849, 5663..5830, 5943..6011, 5973..6056		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o2.ts	Method	TBLASTX:Soybean
Start	6087	End	6405
GI	none	Score	43
Exons	6087..6113, 6087..6113, 6203..6403, 6206..6403, 6211..6405, 6241..6405		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o1.tw	Method	TBLASTX:Wheat
Start	6232	End	7005
GI	none	Score	367
Exons	6232..6426, 6233..6427, 6234..6428, 6235..6429, 6812..6943, 6816..6956, 6817..6954, 6976..7005		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319
Name	OJ000150_00.0124.C60.o2.np	Method	AAT/NAP
Start	7790	End	8410
GI	3063466	Score	295
Exons	7790..8410		
GI Descrip.	(AC003981) F22O13.28 [Arabidopsis thaliana]		

Seq. No.	27957	Seq. ID	OJ000150_00.0124.C60
Gene No.	57633	Strand	-
Start	7794	End	11319

Name	OJ000150_00.0124.C60.o2.gs	Method	GENSCAN
Start	7794	End	11319
GI	none	Score	.47
Exons	7794..8542, 11241..11319		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57634	Strand	+
Start	1	End	1811
Name	OJ000150_00.0124.C61.o1.np	Method	AAT/NAP
Start	1	End	1811
GI	4894963	Score	334
Exons	1..46, 363..477, 758..1099, 1180..1305, 1635..1811		
GI Descrip.	(AF140553) DNA-binding protein WRKY3 [Avena sativa]		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57634	Strand	+
Start	1	End	1811
Name	OJ000150_00.0124.C61.o1.gs	Method	GENSCAN
Start	276	End	1803
GI	none	Score	.66
Exons	276..1099, 1180..1305, 1635..1803		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o2.ts	Method	TBLASTX:Soybean
Start	1044	End	1749
GI	none	Score	44
Exons	1044..1100, 1160..1306, 1174..1305, 1632..1724, 1633..1749		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o2.tc	Method	TBLASTX:Cress
Start	1068	End	1752
GI	none	Score	50
Exons	1068..1103, 1162..1299, 1175..1306, 1177..1302, 1178..1303, 1633..1752, 1635..1739		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o2.tw	Method	TBLASTX:Wheat
Start	1071	End	1746
GI	none	Score	55
Exons	1071..1112, 1160..1306, 1177..1305, 1632..1745, 1632..1745, 1633..1746		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o2.gs	Method	GENSCAN
Start	3714	End	7552
GI	none	Score	.58
Exons	3714..3770, 4063..4217, 4408..4603, 4952..5014, 6126..6422, 6531..6840, 7368..7552		



Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o1.gp	Method	AAT/GAP
Start	4157	End	6156
GI	4716303	Score	877
Exons	4157..4603, 6126..6156		
GI Descrip.	2982268 1.0e-46 (AF051247) probable 40S ribosomal protein S15 [Picea mariana]		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o1.tc	Method	TBLASTX:Cress
Start	4327	End	6387
GI	none	Score	396
Exons	4327..4407, 4334..4609, 4356..4619, 6115..6186, 6126..6185, 6265..6387, 6288..6380		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o1.tw	Method	TBLASTX:Wheat
Start	4331	End	6381
GI	none	Score	377
Exons	4331..4609, 4353..4619, 4355..4639, 4362..4610, 4507..4626, 6126..6185, 6126..6185, 6127..6198, 6261..6299, 6265..6381, 6285..6380		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o1.tm	Method	TBLASTX:Maize
Start	4332	End	6387
GI	none	Score	416
Exons	4332..4619, 4337..4639, 4337..4609, 4516..4626, 6126..6185, 6126..6185, 6127..6186, 6250..6387, 6285..6380		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o1.ts	Method	TBLASTX:Soybean
Start	4346	End	6387
GI	none	Score	348
Exons	4346..4609, 4356..4619, 6115..6198, 6126..6185, 6262..6387, 6288..6380		

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o2.np	Method	AAT/NAP
Start	4358	End	6419
GI	730645	Score	631
Exons	4358..4603, 6126..6183, 6268..6419		
GI Descrip.	40S RIBOSOMAL PROTEIN S15 gi 629556 pir  S43412 ribosomal protein S15 - Arabidopsis thaliana gi 313152 emb CAA80679 (Z23161) ribosomal protein S15 [Arabidopsis thaliana]		

gi|313188|emb|CAA80681| (Z23162) ribosomal protein S15  
 [Arabidopsis thaliana] gi|1903366|gb|AAB70449| (AC000104) Strong  
 similarity to Oryza 40S ribosomal protein S15. ESTs  
 gb|R29788,gb|ATTS0365 com

Seq. No.	27958	Seq. ID	OJ000150_00.0124.C61
Gene No.	57635	Strand	-
Start	3714	End	7552
Name	OJ000150_00.0124.C61.o3.gp	Method	AAT/GAP
Start	6126	End	6601
GI	392_1.R1084	Score	475
Exons	6126..6183, 6268..6422, 6531..6601		
GI Descrip.	'2982268 4.0e-70 (AF051217) probable 40S ribosomal protein S15 [Picea mariana]'		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57636	Strand	+
Start	5035	End	5570
Name	OJ000150_00.0124.C64.o2.gs	Method	GENSCAN
Start	5035	End	5570
GI	none	Score	.6
Exons	5035..5308, 5344..5570		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57637	Strand	+
Start	6030	End	17025
Name	OJ000150_00.0124.C64.o1.gp	Method	AAT/GAP
Start	5930	End	6943
GI	24136_1.R1084	Score	1729
Exons	5930..6206, 6287..6943		
GI Descrip.	'2641211 3.0e-25 (AF031547) histone-like protein [Fritillaria agrestis]'		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57637	Strand	+
Start	6030	End	17025
Name	OJ000150_00.0124.C64.o1.np	Method	AAT/NAP
Start	6030	End	6988
GI	5230785	Score	569
Exons	6030..6206, 6287..6759, 6820..6988		
GI Descrip.	(AF107024) histone H1 WH1B.1 [Triticum aestivum]		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57637	Strand	+
Start	6030	End	17025
Name	OJ000150_00.0124.C64.o3.gs	Method	GENSCAN
Start	6030	End	17025
GI	none	Score	.51
Exons	6030..6206, 6287..6987, 7075..7189, 8701..8742, 11670..11729, 12082..12137, 13334..13760, 14841..14912, 15324..15434, 15807..16007, 16888..17025		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57637	Strand	+
Start	6030	End	17025
Name	OJ000150_00.0124.C64.o2.np	Method	AAT/NAP
Start	13314	End	16049

GI 6175167 Score 245  
 Exons 13314..13437, 13501..13638, 14201..14276, 14620..14713,  
 14841..14912, 15324..15434, 15807..16049  
 GI Descrip. (AC011437) unknown protein [Arabidopsis thaliana]

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57637	Strand	+
Start	6030	End	17025
Name	OJ000150_00.0124.C64.o3.gp	Method	AAT/GAP
Start	13334	End	13506
GI	none	Score	325
Exons	13334..13506		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57637	Strand	+
Start	6030	End	17025
Name	OJ000150_00.0124.C64.o4.gp	Method	AAT/GAP
Start	14815	End	16346
GI	67563_1.R1084	Score	1361
Exons	14815..14912, 15324..15434, 15807..16346		
GI Descrip.	'4510381 gb AAD21469.1  3.0e-14 (AC007017) unknown protein [Arabidopsis thaliana]'		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57638	Strand	+
Start	18301	End	20385
Name	OJ000150_00.0124.C64.o3.np	Method	AAT/NAP
Start	18097	End	20385
GI	5882740	Score	419
Exons	18097..18715, 19313..19774, 19874..20105, 20181..20385		
GI Descrip.	(AC008263) F25A4.20 [Arabidopsis thaliana] gi 6646781 gb AAF21093.1 AC013258_31 (AC013258) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57638	Strand	+
Start	18301	End	20385
Name	OJ000150_00.0124.C64.o4.gs	Method	GENSCAN
Start	18301	End	20382
GI	none	Score	.71
Exons	18301..19066, 19166..20382		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57639	Strand	+
Start	27594	End	28291
Name	OJ000150_00.0124.C64.o5.np	Method	AAT/NAP
Start	27594	End	28291
GI	6562256	Score	306
Exons	27594..27871, 28000..28291		
GI Descrip.	(AL132980) putative protein [Arabidopsis thaliana]		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57640	Strand	-
Start	8746	End	8942
Name	OJ000150_00.0124.C64.o2.tm	Method	TBLASTX:Maize
Start	6024	End	6623
GI	none	Score	263

Exons 6024..6044, 6173..6217, 6284..6475, 6286..6474, 6600..6623

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57640	Strand	-
Start	8746	End	8942
Name	OJ000150_00.0124.C64.o1.tw	Method	TBLASTX:Wheat
Start	6284	End	6472
GI	none	Score	253
Exons	6284..6472, 6286..6471		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57640	Strand	-
Start	8746	End	8942
Name	OJ000150_00.0124.C64.o3.ts	Method	TBLASTX:Soybean
Start	6284	End	6484
GI	none	Score	116
Exons	6284..6388, 6295..6372, 6380..6484, 6382..6480		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57640	Strand	-
Start	8746	End	8942
Name	OJ000150_00.0124.C64.o3.tc	Method	TBLASTX:Cress
Start	6284	End	6481
GI	none	Score	187
Exons	6284..6481, 6286..6480		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57640	Strand	-
Start	8746	End	8942
Name	OJ000150_00.0124.C64.o2.gp	Method	AAT/GAP
Start	8746	End	8942
GI	24989_1.R1084	Score	314
Exons	8746..8942		
GI Descrip.	'5042437/gb AC007789.1 AC007789 2.0e-13 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57641	Strand	-
Start	13356	End	16237
Name	OJ000150_00.0124.C64.o4.tm	Method	TBLASTX:Maize
Start	13356	End	16237
GI	none	Score	133
Exons	13356..13478, 13356..13481, 13368..13562, 13396..13581, 13440..13604, 13517..13579, 13576..13758, 13611..13760, 13620..13754, 14196..14276, 14620..14658, 14625..14711, 14642..14713, 14642..14719, 14671..14730, 14838..14915, 14839..14913, 15320..15436, 15324..15434, 15381..15443, 15802..15852, 15803..15859, 15804..15851, 15805..15852, 15841..15927, 15905..16111, 15913..16008, 15913..16125, 15914..16120, 16039..16122, 16130..16195, 16213..16236, 16220..16237		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57641	Strand	-
Start	13356	End	16237
Name	OJ000150_00.0124.C64.o2.tw	Method	TBLASTX:Wheat
Start	13374	End	13761

GI	none	Score	131
Exons	13374..13496, 13374..13487, 13389..13682, 13401..13661, 13487..13675, 13650..13760, 13651..13761, 13665..13745, 13666..13758		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57642	Strand	
Start	18172	End	18417
Name	OJ000150_00.0124.C64.o5.tm	Method	TBLASTX:Maize
Start	18172	End	18417
GI	none	Score	74
Exons	18172..18348, 18174..18416, 18174..18416, 18226..18417		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57643	Strand	
Start	19378	End	20364
Name	OJ000150_00.0124.C64.o1.ts	Method	TBLASTX:Soybean
Start	19378	End	19770
GI	none	Score	309
Exons	19378..19770, 19423..19674, 19503..19769		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57643	Strand	
Start	19378	End	20364
Name	OJ000150_00.0124.C64.o3.tm	Method	TBLASTX:Maize
Start	19456	End	20355
GI	none	Score	259
Exons	19456..19749, 19495..19677, 19503..19694, 19828..19944, 20191..20355		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57643	Strand	
Start	19378	End	20364
Name	OJ000150_00.0124.C64.o1.tc	Method	TBLASTX:Cress
Start	19489	End	20364
GI	none	Score	248
Exons	19489..19746, 19561..19674, 19566..19706, 20194..20364		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57644	Strand	
Start	27617	End	27860
Name	OJ000150_00.0124.C64.o2.tc	Method	TBLASTX:Cress
Start	27617	End	27797
GI	none	Score	225
Exons	27617..27796, 27657..27797, 27678..27797		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57644	Strand	
Start	27617	End	27860
Name	OJ000150_00.0124.C64.o2.ts	Method	TBLASTX:Soybean
Start	27624	End	27860
GI	none	Score	307
Exons	27624..27860, 27625..27825, 27644..27835		

Seq. No.	27959	Seq. ID	OJ000150_00.0124.C64
Gene No.	57644	Strand	
Start	27617	End	27860

Name	OJ000150_00.0124.C64.ol.tm	Method	TBLASTX:Maize
Start	27626	End	27860
GI	none	Score	170
Exons	27626..27850, 27626..27850, 27627..27860, 27627..27860		

Seq. No.	27960	Seq. ID	OJ000150_00.0124.C65
Gene No.	57645	Strand	+
Start	1	End	440
Name	OJ000150_00.0124.C65.ol.np	Method	AAT/NAP
Start	1	End	440
GI	1869928	Score	51
Exons	1..155, 326..440		
GI Descrip.	(X80068) blz-1 protein [Hordeum vulgare]		

Seq. No.	27960	Seq. ID	OJ000150_00.0124.C65
Gene No.	57645	Strand	+
Start	1	End	440
Name	OJ000150_00.0124.C65.ol.gp	Method	AAT/GAP
Start	326	End	440
GI	463_1.R1084	Score	107
Exons	326..440		
GI Descrip.	'1783305/dbj BAA11431  1.0e-176 (D78609) bZIP protein [Oryza sativa]'		

Seq. No.	27961	Seq. ID	OJ000150_00.0124.C66
Gene No.	57646	Strand	+
Start	35	End	621
Name	OJ000150_00.0124.C66.ol.gs	Method	GENSCAN
Start	35	End	621
GI	none	Score	.74
Exons	35..117, 456..621		

Seq. No.	27962	Seq. ID	OJ000150_00.0124.C67
Gene No.	57647	Strand	-
Start	146	End	616
Name	OJ000150_00.0124.C67.ol.gp	Method	AAT/GAP
Start	146	End	616
GI	84801_1.R1084	Score	813
Exons	146..616		
GI Descrip.	'2982268 1.0e-46 (AF051217) probable 40S ribosomal protein S15 [Picea mariana]'		

Seq. No.	27962	Seq. ID	OJ000150_00.0124.C67
Gene No.	57647	Strand	-
Start	146	End	616
Name	OJ000150_00.0124.C67.ol.gs	Method	GENSCAN
Start	357	End	569
GI	none	Score	.53
Exons	357..569		

Seq. No.	27963	Seq. ID	OJ000150_00.0124.C70
Gene No.	57648	Strand	+
Start	430	End	592
Name	OJ000150_00.0124.C70.ol.gp	Method	AAT/GAP
Start	430	End	592
GI	none	Score	271
Exons	430..592		

Seq. No.	27963	Seq. ID	OJ000150_00.0124.C70
Gene No.	57648	Strand	+
Start	430	End	592
Name	OJ000150_00.0124.C70.o1.gs	Method	GENSCAN
Start	435	End	585
GI	none	Score	.73
Exons	435..585		

Seq. No.	27964	Seq. ID	OJ000150_00.0124.C71
Gene No.	57649	Strand	+
Start	336	End	554
Name	OJ000150_00.0124.C71.o1.gs	Method	GENSCAN
Start	336	End	554
GI	none	Score	.87
Exons	336..554		

Seq. No.	27965	Seq. ID	OJ000150_03.0124.C3
Gene No.	57650	Strand	+
Start	1	End	210
Name	OJ000150_03.0124.C3.o1.np	Method	AAT/NAP
Start	1	End	210
GI	6630699	Score	82
Exons	1..210		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	27965	Seq. ID	OJ000150_03.0124.C3
Gene No.	57651	Strand	-
Start	349	End	537
Name	OJ000150_03.0124.C3.o2.np	Method	AAT/NAP
Start	349	End	537
GI	5922620	Score	164
Exons	349..537		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27966	Seq. ID	OJ000150_03.0124.C5
Gene No.	57652	Strand	+
Start	213	End	327
Name	OJ000150_03.0124.C5.o1.gs	Method	GENSCAN
Start	213	End	327
GI	none	Score	.49
Exons	213..327		

Seq. No.	27967	Seq. ID	OJ000150_03.0124.C6
Gene No.	57653	Strand	+
Start	1	End	549
Name	OJ000150_03.0124.C6.o1.np	Method	AAT/NAP
Start	1	End	549
GI	3023356	Score	57
Exons	1..24, 297..409, 526..549		
GI Descrip.	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR gi 2623222		

## (AF030559) ATP synthase beta-subunit [Mus musculus]

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57654	Strand	+
Start	1	End	944
Name	OJ000150_03.0124.C7.o1.np	Method	AAT/NAP
Start	1	End	941
GI	6630696	Score	1479
Exons	1..941		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related polypeptide from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57654	Strand	+
Start	1	End	944
Name	OJ000150_03.0124.C7.o1.gs	Method	GENSCAN
Start	72	End	944
GI	none	Score	.82
Exons	72..944		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57655	Strand	+
Start	1706	End	1994
Name	OJ000150_03.0124.C7.o1.gp	Method	AAT/GAP
Start	1706	End	1994
GI	426253	Score	514
Exons	1706..1994		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57656	Strand	+
Start	3954	End	4030
Name	OJ000150_03.0124.C7.o3.np	Method	AAT/NAP
Start	3954	End	4030
GI	3023356	Score	38
Exons	3954..4030		
GI Descrip.	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR gi 2623222 (AF030559) ATP synthase beta-subunit [Mus musculus]		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57657	Strand	+
Start	4238	End	8241
Name	OJ000150_03.0124.C7.o2.gp	Method	AAT/GAP
Start	4238	End	8017
GI	11264_1.R1084	Score	1250
Exons	4238..4613, 6520..6648, 7364..7485, 7582..7645, 7993..8017		
GI Descrip.	'3702323 1.0e-106 (AC005397) unknown protein [Arabidopsis thaliana]'		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57657	Strand	+
Start	4238	End	8241
Name	OJ000150_03.0124.C7.o4.np	Method	AAT/NAP
Start	4388	End	8241
GI	6850851	Score	213
Exons	4388..4624, 6546..6664, 7358..7485, 7582..7645, 7993..8241		
GI Descrip.	(AL132962) putative protein [Arabidopsis thaliana]		



Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57657	Strand	+
Start	4238	End	8241
Name	OJ000150_03.0124.C7.o3.gs	Method	GENSCAN
Start	5938	End	7645
GI	none	Score	.72
Exons	5938..5947, 6520..6648, 7364..7404, 7582..7645		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57658	Strand	-
Start	1464	End	5010
Name	OJ000150_03.0124.C7.o1.tm	Method	TBLASTX:Maize
Start	102	End	473
GI	none	Score	359
Exons	102..473, 125..472		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57658	Strand	-
Start	1464	End	5010
Name	OJ000150_03.0124.C7.o1.ts	Method	TBLASTX:Soybean
Start	318	End	692
GI	none	Score	117
Exons	318..449, 324..449, 467..598, 468..692		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57658	Strand	-
Start	1464	End	5010
Name	OJ000150_03.0124.C7.o1.tw	Method	TBLASTX:Wheat
Start	330	End	805
GI	none	Score	105
Exons	330..404, 331..390, 335..430, 335..403, 419..805, 420..803, 421..804		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57658	Strand	-
Start	1464	End	5010
Name	OJ000150_03.0124.C7.o2.tw	Method	TBLASTX:Wheat
Start	1082	End	1436
GI	none	Score	36
Exons	1082..1126, 1082..1114, 1127..1234, 1129..1221, 1152..1250, 1233..1295, 1236..1271, 1307..1435, 1310..1363, 1407..1436		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57658	Strand	-
Start	1464	End	5010
Name	OJ000150_03.0124.C7.o2.np	Method	AAT/NAP
Start	1464	End	4434
GI	6721512	Score	182
Exons	1464..1491, 3012..3042, 3085..3217, 3245..3710, 4204..4434		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	27968	Seq. ID	OJ000150_03.0124.C7
Gene No.	57658	Strand	-
Start	1464	End	5010
Name	OJ000150_03.0124.C7.o2.gs	Method	GENSCAN
Start	2100	End	5010

GI none Score .63  
Exons 2100..2145, 3246..3373, 4229..4600, 4945..5010

Seq. No. 27969 Seq. ID OJ000150\_03.0124.C8  
Gene No. 57659 Strand -  
Start 1 End 751  
Name OJ000150\_03.0124.C8.o1.np Method AAT/NAP  
Start 1 End 751  
GI 6721512 Score 161  
Exons 1..20, 246..283, 326..458, 486..751  
GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 27969 Seq. ID OJ000150\_03.0124.C8  
Gene No. 57659 Strand -  
Start 1 End 751  
Name OJ000150\_03.0124.C8.o1.gs Method GENSCAN  
Start 487 End 614  
GI none Score .92  
Exons 487..614

Seq. No. 27970 Seq. ID OJ000150\_03.0124.C9  
Gene No. 57660 Strand +  
Start 193 End 333  
Name OJ000150\_03.0124.C9.o1.gs Method GENSCAN  
Start 193 End 333  
GI none Score .75  
Exons 193..333

Seq. No. 27970 Seq. ID OJ000150\_03.0124.C9  
Gene No. 57661 Strand -  
Start 1 End 626  
Name OJ000150\_03.0124.C9.o1.np Method AAT/NAP  
Start 1 End 626  
GI 6630696 Score 979  
Exons 1..626  
GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No. 27970 Seq. ID OJ000150\_03.0124.C9  
Gene No. 57661 Strand -  
Start 1 End 626  
Name OJ000150\_03.0124.C9.o1.ts Method TBLASTX:Soybean  
Start 44 End 409  
GI none Score 88  
Exons 44..277, 260..409

Seq. No. 27970 Seq. ID OJ000150\_03.0124.C9  
Gene No. 57661 Strand -  
Start 1 End 626  
Name OJ000150\_03.0124.C9.o1.tw Method TBLASTX:Wheat  
Start 44 End 310  
GI none Score 52  
Exons 44..310, 48..200

Seq. No. 27970 Seq. ID OJ000150\_03.0124.C9  
Gene No. 57661 Strand -

Start	1	End	626
Name	OJ000150_03.0124.C9.ol.tm	Method	TBLASTX:Maize
Start	383	End	626
GI	none	Score	37
Exons	383..424, 390..419, 453..584, 454..588, 455..580, 588..626, 589..624		

Seq. No.	27971	Seq. ID	OJ000150_03.0124.C12
Gene No.	57662	Strand	+
Start	329	End	478
Name	OJ000150_03.0124.C12.ol.gs	Method	GENSCAN
Start	329	End	478
GI	none	Score	.49
Exons	329..478		

Seq. No.	27972	Seq. ID	OJ000150_03.0124.C13
Gene No.	57663	Strand	+
Start	1	End	512
Name	OJ000150_03.0124.C13.ol.np	Method	AAT/NAP
Start	1	End	512
GI	5922620	Score	284
Exons	1..169, 217..512		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27973	Seq. ID	OJ000150_03.0124.C14
Gene No.	57664	Strand	+
Start	250	End	295
Name	OJ000150_03.0124.C14.ol.gs	Method	GENSCAN
Start	250	End	295
GI	none	Score	.69
Exons	250..295		

Seq. No.	27974	Seq. ID	OJ000150_03.0124.C18
Gene No.	57665	Strand	-
Start	1	End	738
Name	OJ000150_03.0124.C18.ol.np	Method	AAT/NAP
Start	1	End	738
GI	132776	Score	70
Exons	1..18, 196..281, 652..738		
GI Descrip.	50S RIBOSOMAL PROTEIN L21, CHLOROPLAST PRECURSOR (CL21) (CS-L7) gi 81484 pir  S13527 ribosomal protein L21 precursor, chloroplast - spinach gi 477106 pir  A48103 ribosomal protein L21 - spinach gi 21315 emb CAA40019  (X56691) L21 r-protein [Spinacia oleracea] gi 170135 (M57413) ribosomal protein L21 [Spinacia oleracea] gi 310590 (M64682) ribosomal protein L21 [Spina		

Seq. No.	27974	Seq. ID	OJ000150_03.0124.C18
Gene No.	57665	Strand	-
Start	1	End	738
Name	OJ000150_03.0124.C18.ol.gs	Method	GENSCAN
Start	150	End	281
GI	none	Score	.78

Exons 150..281

Seq. No. 27974 Seq. ID OJ000150\_03.0124.C18  
Gene No. 57665 Strand -  
Start 1 End 738  
Name OJ000150\_03.0124.C18.ol.gp Method AAT/GAP  
Start 201 End 296  
GI 22547\_1.R1084 Score 120  
Exons 201..296  
GI Descrip. '1710424/sp|P51412|RK21 ARATH 8.0e-28 50S RIBOSOMAL PROTEIN L21,  
CHLOROPLAST PRECURSOR (CL21) >gi\_2129718\_pir\_S71282 ribosomal  
protein L21 - Arabidopsis thaliana >gi\_1149573\_emb\_CAA89887\_  
(Z49787) chloroplast ribosomal large subunit protein L21  
[Arabidopsis thaliana]'

Seq. No. 27975 Seq. ID OJ000150\_03.0124.C20  
Gene No. 57666 Strand +  
Start 63 End 912  
Name OJ000150\_03.0124.C20.ol.np Method AAT/NAP  
Start 63 End 912  
GI 6539570 Score 146  
Exons 63..256, 448..507, 804..912  
GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. No. 27975 Seq. ID OJ000150\_03.0124.C20  
Gene No. 57667 Strand -  
Start 63 End 790  
Name OJ000150\_03.0124.C20.ol.gs Method GENSCAN  
Start 63 End 790  
GI none Score .55  
Exons 63..177, 653..790

Seq. No. 27976 Seq. ID OJ000150\_03.0124.C21  
Gene No. 57668 Strand -  
Start 202 End 264  
Name OJ000150\_03.0124.C21.ol.gs Method GENSCAN  
Start 202 End 264  
GI none Score .84  
Exons 202..264

Seq. No. 27977 Seq. ID OJ000150\_03.0124.C22  
Gene No. 57669 Strand -  
Start 1 End 573  
Name OJ000150\_03.0124.C22.ol.np Method AAT/NAP  
Start 1 End 573  
GI 3023535 Score 521  
Exons 1..254, 413..573  
GI Descrip. MOLYBDOPTERIN BIOSYNTHESIS CNX2 PROTEIN (MOLYBDENUM COFACTOR  
BIOSYNTHESIS ENZYME CNX2) gi|662871|emb|CAA88107| (Z48047) Cnx2  
[Arabidopsis thaliana] gi|6598535|gb|AAD15381.2| (AC006223)  
molybdopterin synthase (CNX2) [Arabidopsis thaliana]

Seq. No. 27977 Seq. ID OJ000150\_03.0124.C22  
Gene No. 57669 Strand -  
Start 1 End 573  
Name OJ000150\_03.0124.C22.ol.tc Method TBLASTX:Cress  
Start 47 End 573

GI	none	Score	185
Exons	47..256, 66..227, 412..573, 413..514, 417..560, 418..573		
Seq. No.	27977	Seq. ID	OJ000150_03.0124.C22
Gene No.	57669	Strand	-
Start	1	End	573
Name	OJ000150_03.0124.C22.o1.tm	Method	TBLASTX:Maize
Start	65	End	573
GI	none	Score	262
Exons	65..259, 66..248, 418..573, 418..573		
Seq. No.	27977	Seq. ID	OJ000150_03.0124.C22
Gene No.	57669	Strand	-
Start	1	End	573
Name	OJ000150_03.0124.C22.o1.gs	Method	GENSCAN
Start	68	End	570
GI	none	Score	.81
Exons	68..259, 418..570		
Seq. No.	27978	Seq. ID	OJ000150_03.0124.C23
Gene No.	57670	Strand	+
Start	422	End	526
Name	OJ000150_03.0124.C23.o1.gs	Method	GENSCAN
Start	422	End	526
GI	none	Score	.81
Exons	422..526		
Seq. No.	27979	Seq. ID	OJ000150_03.0124.C24
Gene No.	57671	Strand	+
Start	589	End	660
Name	OJ000150_03.0124.C24.o1.gs	Method	GENSCAN
Start	589	End	660
GI	none	Score	.53
Exons	589..660		
Seq. No.	27979	Seq. ID	OJ000150_03.0124.C24
Gene No.	57672	Strand	+
Start	589	End	827
Name	OJ000150_03.0124.C24.o1.gp	Method	AAT/GAP
Start	589	End	827
GI	426017	Score	109
Exons	589..672, 798..827		
Seq. No.	27980	Seq. ID	OJ000150_03.0124.C25
Gene No.	57673	Strand	+
Start	80	End	896
Name	OJ000150_03.0124.C25.o1.gs	Method	GENSCAN
Start	80	End	774
GI	none	Score	.62
Exons	80..774		
Seq. No.	27980	Seq. ID	OJ000150_03.0124.C25
Gene No.	57673	Strand	+
Start	80	End	896
Name	OJ000150_03.0124.C25.o1.tm	Method	TBLASTX:Maize
Start	282	End	896
GI	none	Score	45

Exons 282..422, 418..474, 463..513, 577..756, 599..799, 676..801, 678..803, 770..844, 861..896

Seq. No.	27980	Seq. ID	OJ000150_03.0124.C25
Gene No.	57673	Strand	+
Start	80	End	896
Name	OJ000150_03.0124.C25.o1.ts	Method	TBLASTX:Soybean
Start	463	End	844
GI	none	Score	45
Exons	463..513, 577..756, 599..799, 678..803, 770..844		

Seq. No.	27981	Seq. ID	OJ000150_03.0124.C26
Gene No.	57674	Strand	+
Start	275	End	421
Name	OJ000150_03.0124.C26.o1.gs	Method	GENSCAN
Start	275	End	421
GI	none	Score	.79
Exons	275..421		

Seq. No.	27982	Seq. ID	OJ000150_03.0124.C29
Gene No.	57675	Strand	-
Start	528	End	766
Name	OJ000150_03.0124.C29.o1.gp	Method	AAT/GAP
Start	528	End	766
GI	426017	Score	109
Exons	528..557, 683..766		

Seq. No.	27982	Seq. ID	OJ000150_03.0124.C29
Gene No.	57676	Strand	-
Start	695	End	766
Name	OJ000150_03.0124.C29.o1.gs	Method	GENSCAN
Start	695	End	766
GI	none	Score	.56
Exons	695..766		

Seq. No.	27983	Seq. ID	OJ000150_03.0124.C30
Gene No.	57677	Strand	-
Start	276	End	625
Name	OJ000150_03.0124.C30.o1.gs	Method	GENSCAN
Start	276	End	625
GI	none	Score	.95
Exons	276..373, 409..625		

Seq. No.	27984	Seq. ID	OJ000150_03.0124.C33
Gene No.	57678	Strand	-
Start	516	End	693
Name	OJ000150_03.0124.C33.o1.gs	Method	GENSCAN
Start	516	End	693
GI	none	Score	.82
Exons	516..593, 685..693		

Seq. No.	27985	Seq. ID	OJ000150_03.0124.C36
Gene No.	57679	Strand	+
Start	130	End	801
Name	OJ000150_03.0124.C36.o1.np	Method	AAT/NAP
Start	130	End	677
GI	6103736	Score	238

Exons 130..312, 396..470, 590..677  
 GI Descrip. (Y15964) chloroplast ribosomal protein L21 [Arabidopsis thaliana]

Seq. No.	27985	Seq. ID	OJ000150_03.0124.C36
Gene No.	57679	Strand	+
Start	130	End	801
Name	OJ000150_03.0124.C36.o1.gs	Method	GENSCAN
Start	178	End	673
GI	none	Score	.81..
Exons	178..312, 396..470, 590..673		

Seq. No.	27985	Seq. ID	OJ000150_03.0124.C36
Gene No.	57679	Strand	+
Start	130	End	801
Name	OJ000150_03.0124.C36.o1.tc	Method	TBLASTX:Cress
Start	192	End	657
GI	none	Score	131
Exons	192..269, 196..312, 254..295, 393..470, 393..470, 586..657, 587..649		

Seq. No.	27985	Seq. ID	OJ000150_03.0124.C36
Gene No.	57679	Strand	+
Start	130	End	801
Name	OJ000150_03.0124.C36.o1.tm	Method	TBLASTX:Maize
Start	196	End	701
GI	none	Score	162
Exons	196..312, 196..312, 197..313, 254..316, 393..470, 393..473, 586..669, 587..658, 589..675, 672..701		

Seq. No.	27985	Seq. ID	OJ000150_03.0124.C36
Gene No.	57679	Strand	+
Start	130	End	801
Name	OJ000150_03.0124.C36.o1.gp	Method	AAT/GAP
Start	203	End	801
GI	22547 1.R1084	Score	699
Exons	203..312, 396..470, 590..801		
GI Descrip.	'1710424/sp P51412 RK21_ARATH 8.0e-28 50S RIBOSOMAL PROTEIN L21, CHLOROPLAST PRECURSOR (CL21) >gi_2129718_pir_S71282 ribosomal protein L21 - Arabidopsis thaliana >gi_1149573_emb_CAA89887_(249787) chloroplast ribosomal large subunit protein L21 [Arabidopsis thaliana]'		

Seq. No.	27986	Seq. ID	OJ000150_03.0124.C37
Gene No.	57680	Strand	+
Start	73	End	664
Name	OJ000150_03.0124.C37.o1.gs	Method	GENSCAN
Start	73	End	607
GI	none	Score	.96
Exons	73..93, 210..422, 517..607		

Seq. No.	27986	Seq. ID	OJ000150_03.0124.C37
Gene No.	57680	Strand	+
Start	73	End	664
Name	OJ000150_03.0124.C37.o1.gp	Method	AAT/GAP
Start	493	End	664
GI	none	Score	292

Exons 493..664

Seq. No.	27987	Seq. ID	OJ000150_03.0124.C38
Gene No.	57681	Strand	-
Start	182	End	532
Name	OJ000150_03.0124.C38.o1.gs	Method	GENSCAN
Start	182	End	532
GI	none	Score	.72
Exons	182..279, 370..532		-

Seq. No.	27988	Seq. ID	OJ000150_03.0124.C39
Gene No.	57682	Strand	-
Start	119	End	295
Name	OJ000150_03.0124.C39.o1.gs	Method	GENSCAN
Start	119	End	295
GI	none	Score	.66
Exons	119..295		

Seq. No.	27989	Seq. ID	OJ000150_03.0124.C43
Gene No.	57683	Strand	-
Start	1	End	592
Name	OJ000150_03.0124.C43.o1.np	Method	AAT/NAP
Start	1	End	592
GI	5922620	Score	257
Exons	1..35, 206..379, 427..592		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o1.np	Method	AAT/NAP
Start	1	End	3465
GI	6630696	Score	5987
Exons	1..3465		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o5.tw	Method	TBLASTX:Wheat
Start	1	End	256
GI	none	Score	37
Exons	1..30, 2..28, 24..140, 26..142, 28..141, 128..184, 144..185, 147..191, 200..256, 201..254		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o3.tm	Method	TBLASTX:Maize
Start	140	End	502
GI	none	Score	314



Exons 140..502, 141..479

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o2.tw	Method	TBLASTX:Wheat
Start	257	End	1027
GI	none	Score	72
Exons	257..328, 482..688, 683..1027, 846..1010		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o3.ts	Method	TBLASTX:Soybean
Start	278	End	629
GI	none	Score	72
Exons	278..460, 281..469, 282..470, 465..629, 470..628		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o2.tm	Method	TBLASTX:Maize
Start	563	End	1028
GI	none	Score	61
Exons	563..1027, 666..776, 812..892, 897..1028		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o1.ts	Method	TBLASTX:Soybean
Start	698	End	1162
GI	5509260	Score	103
Exons	698..1162, 906..1067		
GI Descrip.	-		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o1.tc	Method	TBLASTX:Cress
Start	809	End	1069
GI	none	Score	110
Exons	809..1069, 897..1067		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o1.tw	Method	TBLASTX:Wheat
Start	1082	End	1829
GI	none	Score	120
Exons	1082..1264, 1082..1822, 1086..1271, 1332..1829, 1422..1829		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o2.ts	Method	TBLASTX:Soybean
Start	1487	End	1885
GI	none	Score	92

Exons 1487..1660, 1664..1885, 1668..1883

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o4.tm	Method	TBLASTX:Maize
Start	1673	End	2137
GI	none	Score	62
Exons	1673..2137, 1680..1856		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o4.tw	Method	TBLASTX:Wheat
Start	1830	End	2030
GI	none	Score	223
Exons	1830..2030, 1830..2027, 1832..2029		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o4.ts	Method	TBLASTX:Soybean
Start	1895	End	2275
GI	none	Score	88
Exons	1895..2143, 2126..2275		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o1.tm	Method	TBLASTX:Maize
Start	2249	End	2593
GI	none	Score	373
Exons	2249..2290, 2319..2591, 2319..2591, 2320..2592, 2320..2592, 2321..2593		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o1.gp	Method	AAT/GAP
Start	2534	End	3423
GI	101595_1.R1084	Score	1446
Exons	2534..2608, 2724..3423		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o5.tm	Method	TBLASTX:Maize
Start	3116	End	3376
GI	none	Score	131
Exons	3116..3307, 3119..3310, 3181..3312, 3305..3376		

Seq. No.	27990	Seq. ID	OJ000150_03.0124.C46
Gene No.	57684	Strand	-
Start	1	End	3571
Name	OJ000150_03.0124.C46.o3.tw	Method	TBLASTX:Wheat

Start	3176	End	3571
GI	none	Score	152
Exons	3176..3307, 3195..3305, 3304..3459, 3436..3570, 3473..3571		

Seq. No.	27991	Seq. ID	OJ000150_03.0124.C47
Gene No.	57685	Strand	-
Start	2911	End	10125
Name	OJ000150_03.0124.C47.o1.gs	Method	GENSCAN
Start	2911	End	10125
GI	none	Score	.62
Exons	2911..3251, 3849..3996, 4884..5013, 5432..5575, 6029..6205, 6366..7834, 8389..8508, 9643..9756, 9928..10125		

Seq. No.	27991	Seq. ID	OJ000150_03.0124.C47
Gene No.	57685	Strand	-
Start	2911	End	10125
Name	OJ000150_03.0124.C47.o1.gp	Method	AAT/GAP
Start	5760	End	6191
GI	none	Score	864
Exons	5760..6191		

Seq. No.	27991	Seq. ID	OJ000150_03.0124.C47
Gene No.	57685	Strand	-
Start	2911	End	10125
Name	OJ000150_03.0124.C47.o1.np	Method	AAT/NAP
Start	6356	End	9267
GI	3702324	Score	334
Exons	6356..6595, 7031..7578, 7618..7898, 9236..9267		
GI Descrip.	(AC005397) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27991	Seq. ID	OJ000150_03.0124.C47
Gene No.	57685	Strand	-
Start	2911	End	10125
Name	OJ000150_03.0124.C47.o2.tm	Method	TBLASTX:Maize
Start	6512	End	6922
GI	none	Score	180
Exons	6512..6922, 6513..6734, 6532..6915		

Seq. No.	27991	Seq. ID	OJ000150_03.0124.C47
Gene No.	57685	Strand	-
Start	2911	End	10125
Name	OJ000150_03.0124.C47.o1.tc	Method	TBLASTX:Cress
Start	6613	End	7049
GI	none	Score	87
Exons	6613..6918, 6644..6973, 6810..6974, 6989..7048, 7002..7049		

Seq. No.	27991	Seq. ID	OJ000150_03.0124.C47
Gene No.	57685	Strand	-
Start	2911	End	10125
Name	OJ000150_03.0124.C47.o1.tw	Method	TBLASTX:Wheat
Start	6644	End	7050
GI	none	Score	53
Exons	6644..6973, 6660..6734, 6810..6974, 6988..7050, 6989..7045		

Seq. No.	27991	Seq. ID	OJ000150_03.0124.C47
Gene No.	57685	Strand	-
Start	2911	End	10125

Name	OJ000150_03.0124.C47.ol.tm	Method	TBLASTX:Maize
Start	6924	End	7494
GI	none	Score	55
Exons	6924..6974, 6929..6973, 6969..7055, 6988..7044, 6989..7063, 6999..7055, 7069..7143, 7069..7275, 7070..7276, 7073..7276, 7189..7299, 7265..7345, 7275..7493, 7278..7448, 7279..7494, 7279..7494		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57686	Strand	+
Start	3825	End	6724
Name	OJ000150_03.0124.C48.ol.np	Method	AAT/NAP
Start	3825	End	6724
GI	5042463	Score	99
Exons	3825..4022, 4683..4813, 4865..4949, 6663..6724		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57687	Strand	+
Start	8260	End	11836
Name	OJ000150_03.0124.C48.ol.gp	Method	AAT/GAP
Start	8177	End	10270
GI	426017	Score	589
Exons	8177..8320, 9234..9305, 10030..10086, 10211..10270		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57687	Strand	+
Start	8260	End	11836
Name	OJ000150_03.0124.C48.o3.gs	Method	GENSCAN
Start	8260	End	11664
GI	none	Score	.71
Exons	8260..8320, 9234..9305, 10137..10261, 11476..11664		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57687	Strand	+
Start	8260	End	11836
Name	OJ000150_03.0124.C48.o2.np	Method	AAT/NAP
Start	10211	End	10558
GI	6478923	Score	247
Exons	10211..10351, 10461..10558		
GI Descrip.	(AC011436) putative alpha-hemolysin [Arabidopsis thaliana]		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57687	Strand	+
Start	8260	End	11836
Name	OJ000150_03.0124.C48.o2.gp	Method	AAT/GAP
Start	10296	End	11836
GI	553 2.R1084	Score	894
Exons	10296..10351, 10461..10526, 11476..11836		
GI Descrip.	'576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57688	Strand	+
Start	14898	End	17168
Name	OJ000150_03.0124.C48.o5.gs	Method	GENSCAN
Start	14898	End	17168

GI	none	Score	.46
Exons	14898..15066, 15145..15418, 15791..15956, 16234..16448, 16976..17168		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57689	Strand	+
Start	19884	End	20072
Name	OJ000150_03.0124.C48.o3.gp	Method	AAT/GAP
Start	19884	End	20072
GI	none	Score	242
Exons	19884..20072		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57690	Strand	+
Start	21683	End	25083
Name	OJ000150_03.0124.C48.o7.gs	Method	GENSCAN
Start	21683	End	25083
GI	none	Score	.49
Exons	21683..21729, 22005..22432, 24914..25083		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57691	Strand	+
Start	25850	End	26006
Name	OJ000150_03.0124.C48.o5.np	Method	AAT/NAP
Start	25850	End	26006
GI	5922620	Score	168
Exons	25850..26006		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57692	Strand	+
Start	26283	End	29311
Name	OJ000150_03.0124.C48.o7.np	Method	AAT/NAP
Start	26283	End	29311
GI	5922620	Score	480
Exons	26283..26330, 26369..26492, 27396..27618, 27666..27837, 28948..28972, 29120..29311		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57693	Strand	+
Start	32039	End	32399
Name	OJ000150_03.0124.C48.o9.gs	Method	GENSCAN
Start	32039	End	32399
GI	none	Score	.66
Exons	32039..32151, 32177..32399		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57694	Strand	+

Start	36120	End	36384
Name	OJ000150_03.0124.C48.o10.gs	Method	GENSCAN
Start	36120	End	36384
GI	none	Score	.76
Exons	36120..36133, 36309..36384		
Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57695	Strand	-
Start	5586	End	7101
Name	OJ000150_03.0124.C48.o2.gs	Method	GENSCAN
Start	5586	End	7101
GI	none	Score	.73
Exons	5586..5613, 6454..6583, 7053..7101		
Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57696	Strand	-
Start	9490	End	11841
Name	OJ000150_03.0124.C48.o3.np	Method	AAT/NAP
Start	9490	End	11841
GI	633110	Score	312
Exons	9490..9554, 11251..11387, 11475..11635, 11743..11841		
GI Descrip.	(D31843) plasma membrane H <sup>+</sup> -ATPase [Oryza sativa]		
Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57697	Strand	-
Start	12184	End	13221
Name	OJ000150_03.0124.C48.o4.gs	Method	GENSCAN
Start	12184	End	13221
GI	none	Score	.67
Exons	12184..12288, 12869..13042, 13147..13221		
Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57698	Strand	-
Start	18361	End	21340
Name	OJ000150_03.0124.C48.o6.gs	Method	GENSCAN
Start	18361	End	21340
GI	none	Score	.51
Exons	18361..18553, 18740..18866, 19063..19214, 20097..21340		
Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57698	Strand	-
Start	18361	End	21340
Name	OJ000150_03.0124.C48.o4.np	Method	AAT/NAP
Start	20039	End	21256
GI	6850850	Score	1167
Exons	20039..21256		
GI Descrip.	(AL132962) putative protein [Arabidopsis thaliana]		
Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57699	Strand	-
Start	26145	End	27489
Name	OJ000150_03.0124.C48.o6.np	Method	AAT/NAP
Start	26145	End	27489
GI	6630699	Score	76
Exons	26145..26228, 27373..27489		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein		

[Oryza sativa]

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57700	Strand	-
Start	29450	End	30794
Name	OJ000150_03.0124.C48.o8.np	Method	AAT/NAP
Start	29450	End	30794
GI	6630699	Score	73
Exons	29450..29528, 30763..30794		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57701	Strand	-
Start	37308	End	46463
Name	OJ000150_03.0124.C48.o11.gs	Method	GENSCAN
Start	37308	End	46463
GI	none	Score	.69
Exons	37308..37390, 37481..37571, 41229..41363, 41711..42781, 42876..43088, 43205..43348, 43456..43626, 44238..44435, 44556..46463		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57701	Strand	-
Start	37308	End	46463
Name	OJ000150_03.0124.C48.o4.gp	Method	AAT/GAP
Start	42452	End	42805
GI	none	Score	664
Exons	42452..42805		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57701	Strand	-
Start	37308	End	46463
Name	OJ000150_03.0124.C48.o5.gp	Method	AAT/GAP
Start	45519	End	45811
GI	2312773	Score	550
Exons	45519..45811		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o7.tm	Method	TBLASTX:Maize
Start	10017	End	10492
GI	none	Score	72
Exons	10017..10088, 10027..10077, 10041..10091, 10208..10354, 10212..10358, 10213..10353, 10459..10491, 10460..10492		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o1.tc	Method	TBLASTX:Cress
Start	11253	End	11840
GI	none	Score	74
Exons	11253..11351, 11257..11349, 11475..11636, 11478..11636, 11479..11637, 11751..11819, 11754..11840		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o4.tm	Method	TBLASTX:Maize
Start	11253	End	11841
GI	none	Score	76
Exons	11253..11393, 11255..11371, 11257..11394, 11478..11636, 11479..11637, 11754..11819, 11754..11840, 11755..11841		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o2.ts	Method	TBLASTX:Soybean
Start	11253	End	11840
GI	none	Score	67
Exons	11253..11393, 11257..11370, 11478..11585, 11478..11636, 11479..11637, 11754..11840, 11760..11819		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o2.tw	Method	TBLASTX:Wheat
Start	11253	End	11841
GI	none	Score	117
Exons	11253..11351, 11469..11636, 11470..11637, 11478..11642, 11754..11840, 11760..11819, 11764..11841		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o1.tw	Method	TBLASTX:Wheat
Start	19998	End	20357
GI	none	Score	229
Exons	19998..20195, 20015..20356, 20036..20335, 20046..20357		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o1.ts	Method	TBLASTX:Soybean
Start	20016	End	21131
GI	none	Score	437
Exons	20016..20189, 20022..20477, 20033..20488, 20505..20876, 20510..20911, 20511..20912, 20903..20980, 20954..20995, 20954..21007, 21005..21127, 21009..21131		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o3.tm	Method	TBLASTX:Maize
Start	20033	End	20423
GI	none	Score	529
Exons	20033..20422, 20034..20423		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o2.tm	Method	TBLASTX:Maize



Start	20552	End	21037
GI	none	Score	221
Exons	20552..20767, 20553..20777, 20553..20774, 20554..20787, 20762..21037, 20763..21035		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o5.tm	Method	TBLASTX:Maize
Start	21038	End	21297
GI	none	Score	288
Exons	21038..21295, 21039..21296, 21040..21297, 21040..21297		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o1.tm	Method	TBLASTX:Maize
Start	41589	End	45329
GI	none	Score	36
Exons	41589..41624, 41641..41715, 41682..41807, 41684..41809, 41686..41886, 41729..41908, 41972..42022, 42011..42067, 42063..42203, 44215..44442, 44238..44441, 44539..44832, 44556..44861, 44560..44862, 44851..44904, 44858..44905, 44871..45155, 44881..45162, 44923..45162, 45154..45246, 45157..45264, 45158..45322, 45207..45329		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o3.ts	Method	TBLASTX:Soybean
Start	41641	End	42022
GI	none	Score	181
Exons	41641..41715, 41682..41807, 41684..41809, 41686..41886, 41729..41908, 41972..42022		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o6.tm	Method	TBLASTX:Maize
Start	45806	End	46292
GI	none	Score	89
Exons	45806..45988, 45819..45989, 45837..45992, 45933..46292, 45957..46292		

Seq. No.	27992	Seq. ID	OJ000150_03.0124.C48
Gene No.	57702	Strand	-
Start	47962	End	48522
Name	OJ000150_03.0124.C48.o12.gs	Method	GENSCAN
Start	47962	End	48522
GI	none	Score	.84
Exons	47962..48522		

Seq. No.	27993	Seq. ID	OJ000150_03.0124.C49
Gene No.	57703	Strand	+
Start	2964	End	6268
Name	OJ000150_03.0124.C49.o1.gs	Method	GENSCAN
Start	2964	End	6268

GI	none	Score	.68
Exons	2964..3078, 4743..5104, 6083..6268		

  

Seq. No.	27993	Seq. ID	OJ000150_03.0124.C49
Gene No.	57704	Strand	+
Start	7462	End	11131
Name	OJ000150_03.0124.C49.o1.np	Method	AAT/NAP
Start	7450	End	9331
GI	1710424	Score	331
Exons	7450..7764, 8236..8316, 8865..8966, 9050..9124, 9244..9331		
GI Descrip.	50S RIBOSOMAL PROTEIN L21, CHLOROPLAST PRECURSOR (CL21) gi 2129718 pir  S71282 ribosomal protein L21 - Arabidopsis thaliana gi 1149573 emb CAA89887  (Z49787) chloroplast ribosomal large subunit protein L21 [Arabidopsis thaliana]		

  

Seq. No.	27993	Seq. ID	OJ000150_03.0124.C49
Gene No.	57704	Strand	+
Start	7462	End	11131
Name	OJ000150_03.0124.C49.o2.gs	Method	GENSCAN
Start	7462	End	11131
GI	none	Score	.82
Exons	7462..7764, 8236..8316, 8832..8966, 9050..9124, 10226..10320, 11029..11131		

  

Seq. No.	27993	Seq. ID	OJ000150_03.0124.C49
Gene No.	57704	Strand	+
Start	7462	End	11131
Name	OJ000150_03.0124.C49.o2.gp	Method	AAT/GAP
Start	7667	End	9455
GI	22547_1.R1084	Score	924
Exons	7667..7764, 8236..8316, 8865..8966, 9050..9124, 9244..9455		
GI Descrip.	'1710424/sp P51412 RK21_ARATH 8.0e-28 50S RIBOSOMAL PROTEIN L21, CHLOROPLAST PRECURSOR (CL21) >gi_2129718_pir_S71282 ribosomal protein L21 - Arabidopsis thaliana >gi_1149573_emb_CAA89887 - (Z49787) chloroplast ribosomal large subunit protein L21 [Arabidopsis thaliana]'		

  

Seq. No.	27993	Seq. ID	OJ000150_03.0124.C49
Gene No.	57705	Strand	-
Start	5769	End	5852
Name	OJ000150_03.0124.C49.o1.gp	Method	AAT/GAP
Start	5769	End	5852
GI	LIB3431-004-P1-K1-G12	Score	109
Exons	5769..5852		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

  

Seq. No.	27993	Seq. ID	OJ000150_03.0124.C49
Gene No.	57706	Strand	
Start	7729	End	9355
Name	OJ000150_03.0124.C49.o1.tm	Method	TBLASTX:Maize
Start	7729	End	9355
GI	none	Score	152
Exons	7729..7776, 8199..8315, 8218..8319, 8236..8319, 8246..8320, 8850..8966, 8850..8966, 8851..8967, 8864..8995, 9021..9122, 9047..9124, 9047..9127, 9240..9323, 9241..9312, 9243..9329, 9326..9355		

Seq. No.	27993	Seq. ID	OJ000150_03.0124.C49
Gene No.	57706	Strand	
Start	7729	End	9355
Name	OJ000150_03.0124.C49.o1.tc	Method	TBLASTX:Cress
Start	8218	End	9311
GI	none	Score	128
Exons	8218..8319, 8846..8923, 8850..8966, 8914..8949, 9047..9124, 9047..9124, 9240..9311, 9241..9303		

Seq. No.	27994	Seq. ID	OJ000150_03.0124.C50
Gene No.	57707	Strand	-
Start	6207	End	7914
Name	OJ000150_03.0124.C50.o1.np	Method	AAT/NAP
Start	6207	End	7914
GI	6498436	Score	613
Exons	6207..6325, 6591..6944, 7846..7914		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	27995	Seq. ID	OJ000150_03.0124.C51
Gene No.	57708	Strand	-
Start	4135	End	4634
Name	OJ000150_03.0124.C51.o2.gs	Method	GENSCAN
Start	4135	End	4634
GI	none	Score	.72
Exons	4135..4208, 4574..4634		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57709	Strand	+
Start	2595	End	5466
Name	OJ000150_03.0124.C52.o1.gs	Method	GENSCAN
Start	2595	End	4490
GI	none	Score	.96
Exons	2595..4490		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57709	Strand	+
Start	2595	End	5466
Name	OJ000150_03.0124.C52.o1.np	Method	AAT/NAP
Start	2595	End	5466
GI	6692098	Score	1340
Exons	2595..4302, 5423..5466		
GI Descrip.	(AC007764) F22C12.10 [Arabidopsis thaliana]		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57709	Strand	+
Start	2595	End	5466
Name	OJ000150_03.0124.C52.o1.gp	Method	AAT/GAP
Start	2818	End	3277
GI	none	Score	903
Exons	2818..3277		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57710	Strand	+
Start	7760	End	11919
Name	OJ000150_03.0124.C52.o2.np	Method	AAT/NAP
Start	7760	End	11768

GI 3023535 Score 1337  
 Exons 7760..7868, 9018..9571, 9709..9881, 10040..10226, 10952..11020, 11688..11768  
 GI Descrip. MOLYBDOPTERIN BIOSYNTHESIS CNX2 PROTEIN (MOLYBDENUM COFACTOR BIOSYNTHESIS ENZYME CNX2) gi|662871|emb|CAA88107| (Z48047) Cnx2 [Arabidopsis thaliana] gi|6598535|gb|AAD15381.2| (AC006223) molybdopterin synthase (CNX2) [Arabidopsis thaliana]

Seq. No. 27996 Seq. ID OJ000150\_03.0124.C52  
 Gene No. 57710 Strand +  
 Start 7760 End 11919  
 Name OJ000150\_03.0124.C52.o3.gs Method GENSCAN  
 Start 8652 End 11771  
 GI none Score .87  
 Exons 8652..8708, 8960..9571, 9709..9876, 10035..10226, 10952..11020, 11688..11771

Seq. No. 27996 Seq. ID OJ000150\_03.0124.C52  
 Gene No. 57710 Strand +  
 Start 7760 End 11919  
 Name OJ000150\_03.0124.C52.o5.gp Method AAT/GAP  
 Start 10149 End 11919  
 GI 56139\_1.R1084 Score 492  
 Exons 10149..10226, 10952..11020, 11688..11835, 11896..11919  
 GI Descrip. '4887741/gb|AAD32277.1|AC006533\_1 1.0e-24 (AC006533) molybdopterin biosynthesis cnx2 protein [Arabidopsis thaliana]'

Seq. No. 27996 Seq. ID OJ000150\_03.0124.C52  
 Gene No. 57711 Strand +  
 Start 20908 End 23722  
 Name OJ000150\_03.0124.C52.o6.gs Method GENSCAN  
 Start 20908 End 23722  
 GI none Score .69  
 Exons 20908..20952, 22237..22290, 22655..22832, 23655..23722

Seq. No. 27996 Seq. ID OJ000150\_03.0124.C52  
 Gene No. 57712 Strand +  
 Start 24495 End 26004  
 Name OJ000150\_03.0124.C52.o7.gs Method GENSCAN  
 Start 24495 End 26004  
 GI none Score .64  
 Exons 24495..24653, 25984..26004

Seq. No. 27996 Seq. ID OJ000150\_03.0124.C52  
 Gene No. 57713 Strand +  
 Start 28984 End 29334  
 Name OJ000150\_03.0124.C52.o8.gs Method GENSCAN  
 Start 28984 End 29334  
 GI none Score .74  
 Exons 28984..29146, 29237..29334

Seq. No. 27996 Seq. ID OJ000150\_03.0124.C52  
 Gene No. 57714 Strand +  
 Start 32386 End 32535  
 Name OJ000150\_03.0124.C52.o9.gs Method GENSCAN  
 Start 32386 End 32535  
 GI none Score .88

Exons 32386..32535

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57715	Strand	+
Start	32990	End	36871
Name	OJ000150_03.0124.C52.o5.np	Method	AAT/NAP
Start	32990	End	36871
GI	5852172	Score	116
Exons	32990..33016, 36713..36871		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57716	Strand	-
Start	4029	End	4837
Name	OJ000150_03.0124.C52.o2.gp	Method	AAT/GAP
Start	4029	End	4837
GI	none	Score	1593
Exons	4029..4837		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57717	Strand	-
Start	6327	End	8412
Name	OJ000150_03.0124.C52.o2.gs	Method	GENSCAN
Start	6327	End	8412
GI	none	Score	.58
Exons	6327..6439, 6454..6538, 6699..6884, 6892..7053, 7496..7646, 8252..8412		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57718	Strand	-
Start	14905	End	18022
Name	OJ000150_03.0124.C52.o6.gp	Method	AAT/GAP
Start	14905	End	15735
GI	47737_2.R1084	Score	1518
Exons	14905..15735		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57718	Strand	-
Start	14905	End	18022
Name	OJ000150_03.0124.C52.o3.np	Method	AAT/NAP
Start	15362	End	16545
GI	6143881	Score	143
Exons	15362..15539, 16448..16545		
GI Descrip.	(AC010927) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57718	Strand	-
Start	14905	End	18022
Name	OJ000150_03.0124.C52.o5.gs	Method	GENSCAN
Start	16394	End	18022
GI	none	Score	.53
Exons	16394..16740, 17161..17201, 17472..17567, 17955..18022		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-

Start	33775	End	37660
Name	OJ000150_03.0124.C52.o1.tm	Method	TBLASTX:Maize
Start	3069	End	4145
GI	none	Score	55
Exons	3069..3113, 3114..3158, 3251..3601, 3255..3866, 3317..3565, 3323..3601, 3329..3679, 3335..3679, 3399..3941, 3410..3676, 3473..3679, 3474..4016, 3549..4076, 3573..3821, 3618..4076, 3725..3862, 3726..4145, 3731..4078, 3731..4069, 3731..4015, 3743..4093, 3767..4066, 3848..4075, 3900..4079, 3917..4072, 3993..4085		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o1.tc	Method	TBLASTX:Cress
Start	3248	End	4166
GI	none	Score	40
Exons	3248..3304, 3300..3863, 3303..3401, 3317..3418, 3318..3419, 3318..3476, 3324..3506, 3326..3601, 3332..3463, 3335..3601, 3335..3601, 3335..3658, 3335..3469, 3339..3590, 3349..3612, 3350..3541, 3356..3538, 3385..3609, 3398..3676, 3399..3938, 3402..3821, 3407..3601, 3408..3626, 3450..4019, 3489..3683, 3493..3687, 3494..3688, 3549..4076, 3558..3776, 3576..3701, 3576..3962, 3597..3773, 3597..3767, 3638..3844, 3639..3854, 3676..3840, 3725..3775, 3728..3925, 3731..4072, 3731..4069, 3731..4018, 3732..3926, 3743..4072, 3750..4076, 3767..4066, 3789..4001, 3806..4000, 3854..4102, 3864..4103, 3871..4125, 3871..4104, 3876..4124, 3917..4081, 3918..4073, 4110..4166		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o1.ts	Method	TBLASTX:Soybean
Start	3289	End	4217
GI	none	Score	51
Exons	3289..3498, 3303..3560, 3303..3401, 3317..3469, 3318..3782, 3318..3476, 3318..3638, 3326..3412, 3329..3658, 3332..3475, 3335..3583, 3338..3541, 3339..3683, 3339..3506, 3339..3554, 3344..3853, 3344..3601, 3350..3556, 3352..3618, 3402..3464, 3414..3938, 3414..3626, 3431..3601, 3488..3583, 3489..3683, 3489..4013, 3489..3539, 3500..3679, 3560..3658, 3564..3779, 3564..4082, 3564..3614, 3576..3734, 3597..3821, 3597..3776, 3604..3795, 3606..3791, 3606..3800, 3639..3854, 3679..3834, 3731..4075, 3731..4072, 3731..3853, 3731..3925, 3731..4072, 3732..3926, 3789..4001, 3794..4069, 3801..3917, 3806..4000, 3863..4084, 3864..4106, 3866..4105, 3881..3943, 3938..4069, 3939..3989, 3939..4145, 3944..4081, 3947..4015, 4111..4149, 4112..4201, 4113..4217, 4175..4201		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o2.tm	Method	TBLASTX:Maize
Start	9047	End	11017
GI	none	Score	472
Exons	9047..9571, 9049..9573, 9050..9574, 9052..9573, 9706..9876, 9707..9874, 9708..9875, 10035..10229, 10046..10228, 10886..11017		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o2.tc	Method	TBLASTX:Cress
Start	9080	End	11775
GI	none	Score	672
Exons	9080..9574, 9085..9573, 9705..9881, 9706..9882, 10038..10247, 10067..10228, 10928..11023, 11687..11767, 11688..11753, 11693..11770, 11698..11775		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o2.ts	Method	TBLASTX:Soybean
Start	9281	End	9572
GI	none	Score	159
Exons	9281..9388, 9286..9393, 9403..9570, 9410..9571, 9420..9572		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o3.tm	Method	TBLASTX:Maize
Start	15359	End	15656
GI	none	Score	110
Exons	15359..15526, 15362..15454, 15363..15524, 15621..15656		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o3.tc	Method	TBLASTX:Cress
Start	15365	End	15532
GI	none	Score	115
Exons	15365..15532, 15375..15521		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o3.ts	Method	TBLASTX:Soybean
Start	15374	End	15526
GI	none	Score	154
Exons	15374..15526, 15378..15521		

Seq. No.	27996	Seq. ID	OJ000150_03.0124.C52
Gene No.	57719	Strand	-
Start	33775	End	37660
Name	OJ000150_03.0124.C52.o4.np	Method	AAT/NAP
Start	33775	End	37660
GI	5852093	Score	37
Exons	33775..33882, 37617..37660		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	27997	Seq. ID	OJ000150_03.0124.C54
Gene No.	57720	Strand	-
Start	26	End	153
Name	OJ000150_03.0124.C54.o1.gs	Method	GENSCAN
Start	26	End	153

GI	none	Score	.94
Exons	26..153		
Seq. No.	27998	Seq. ID	OJ000150_03.0124.C55
Gene No.	57721	Strand	+
Start	167	End	608
Name	OJ000150_03.0124.C55.o1.gs	Method	GENSCAN
Start	167	End	608
GI	none	Score	.63
Exons	167..321, 582..608		
Seq. No.	27999	Seq. ID	OJ000150_03.0124.C56
Gene No.	57722	Strand	+
Start	255	End	353
Name	OJ000150_03.0124.C56.o1.gs	Method	GENSCAN
Start	255	End	353
GI	none	Score	.58
Exons	255..353		
Seq. No.	28000	Seq. ID	OJ000150_02.0124.C1
Gene No.	57723	Strand	+
Start	1	End	1739
Name	OJ000150_02.0124.C1.o1.np	Method	AAT/NAP
Start	1	End	1739
GI	2961349	Score	800
Exons	1..518, 1122..1739		
GI Descrip.	(AL022140) LTR retrotransposon like protein [Arabidopsis thaliana]		
Seq. No.	28000	Seq. ID	OJ000150_02.0124.C1
Gene No.	57723	Strand	+
Start	1	End	1739
Name	OJ000150_02.0124.C1.o2.tw	Method	TBLASTX:Wheat
Start	1	End	484
GI	none	Score	215
Exons	1..234, 2..259, 278..367, 362..484		
Seq. No.	28000	Seq. ID	OJ000150_02.0124.C1
Gene No.	57723	Strand	+
Start	1	End	1739
Name	OJ000150_02.0124.C1.o2.tm	Method	TBLASTX:Maize
Start	8	End	550
GI	none	Score	303
Exons	8..550, 13..249		
Seq. No.	28000	Seq. ID	OJ000150_02.0124.C1
Gene No.	57723	Strand	+
Start	1	End	1739
Name	OJ000150_02.0124.C1.o2.ts	Method	TBLASTX:Soybean
Start	41	End	499
GI	none	Score	278
Exons	41..499, 124..336		
Seq. No.	28000	Seq. ID	OJ000150_02.0124.C1
Gene No.	57723	Strand	+
Start	1	End	1739
Name	OJ000150_02.0124.C1.o2.tc	Method	TBLASTX:Cress



Start 56  
 GI none  
 Exons 56..304, 76..345, 326..499

End 499  
 Score 209

Seq. No. 28000  
 Gene No. 57723  
 Start 1  
 Name OJ000150\_02.0124.C1.o1.gs  
 Start 78  
 GI none  
 Exons 78..1606

Seq. ID OJ000150\_02.0124.C1  
 Strand +  
 End 1739  
 Method GENSCAN  
 End 1606  
 Score .75

Seq. No. 28000  
 Gene No. 57723  
 Start 1  
 Name OJ000150\_02.0124.C1.o1.ts  
 Start 1181  
 GI 5509260  
 Exons 1181..1333, 1189..1446, 1190..1669, 1513..1665  
 GI Descrip. -

Seq. ID OJ000150\_02.0124.C1  
 Strand +  
 End 1739  
 Method TBLASTX:Soybean  
 End 1669  
 Score 392

Seq. No. 28000  
 Gene No. 57723  
 Start 1  
 Name OJ000150\_02.0124.C1.o1.tw  
 Start 1216  
 GI none  
 Exons 1216..1296, 1223..1297, 1340..1663, 1342..1446, 1503..1667, 1513..1659

Seq. ID OJ000150\_02.0124.C1  
 Strand +  
 End 1739  
 Method TBLASTX:Wheat  
 End 1667  
 Score 69

Seq. No. 28000  
 Gene No. 57723  
 Start 1  
 Name OJ000150\_02.0124.C1.o1.tc  
 Start 1297  
 GI none  
 Exons 1297..1572, 1298..1573

Seq. ID OJ000150\_02.0124.C1  
 Strand +  
 End 1739  
 Method TBLASTX:Cress  
 End 1573  
 Score 289

Seq. No. 28000  
 Gene No. 57723  
 Start 1  
 Name OJ000150\_02.0124.C1.o1.tm  
 Start 1354  
 GI none  
 Exons 1354..1446, 1355..1735, 1508..1660, 1513..1674

Seq. ID OJ000150\_02.0124.C1  
 Strand +  
 End 1739  
 Method TBLASTX:Maize  
 End 1735  
 Score 318

Seq. No. 28001  
 Gene No. 57724  
 Start 51  
 Name OJ000150\_02.0124.C2.o1.np  
 Start 51  
 GI 421955  
 Exons 51..1173, 1890..1939

Seq. ID OJ000150\_02.0124.C2  
 Strand +  
 End 2076  
 Method AAT/NAP  
 End 1939  
 Score 1097

GI Descrip. hypothetical protein 4 - potato transposon Tst1  
 gi|21434|emb|CAA36616| (X52387) ORF4 [Solanum tuberosum]

Seq. No. 28001

Seq. ID OJ000150\_02.0124.C2

Gene No.	57724	Strand	+
Start	51	End	2076
Name	OJ000150_02.0124.C2.o1.gs	Method	GENSCAN
Start	96	End	2076
GI	none	Score	.56
Exons	96..1227, 1730..1951, 1988..2076		

Seq. No.	28001	Seq. ID	OJ000150_02.0124.C2
Gene No.	57725	Strand	+
Start	4970	End	8466
Name	OJ000150_02.0124.C2.o3.gs	Method	GENSCAN
Start	4970	End	8466
GI	none	Score	.63
Exons	4970..4981, 5619..5780, 6550..6559, 7650..7778, 7914..7960, 8035..8466		

Seq. No.	28001	Seq. ID	OJ000150_02.0124.C2
Gene No.	57726	Strand	+
Start	18008	End	18857
Name	OJ000150_02.0124.C2.o2.gp	Method	AAT/GAP
Start	18008	End	18857
GI	none	Score	1661
Exons	18008..18857		

Seq. No.	28001	Seq. ID	OJ000150_02.0124.C2
Gene No.	57727	Strand	-
Start	1825	End	4132
Name	OJ000150_02.0124.C2.o1.gp	Method	AAT/GAP
Start	1825	End	4132
GI	none	Score	1327
Exons	1825..1988, 2888..3110, 3805..4132		

Seq. No.	28001	Seq. ID	OJ000150_02.0124.C2
Gene No.	57727	Strand	-
Start	1825	End	4132
Name	OJ000150_02.0124.C2.o2.gs	Method	GENSCAN
Start	2731	End	4076
GI	none	Score	.81
Exons	2731..2760, 2888..3110, 3805..4076		

Seq. No.	28001	Seq. ID	OJ000150_02.0124.C2
Gene No.	57728	Strand	-
Start	19321	End	19507
Name	OJ000150_02.0124.C2.o2.tm	Method	TBLASTX:Maize
Start	63	End	467
GI	none	Score	281
Exons	63..467		

Seq. No.	28001	Seq. ID	OJ000150_02.0124.C2
Gene No.	57728	Strand	-
Start	19321	End	19507
Name	OJ000150_02.0124.C2.o2.tw	Method	TBLASTX:Wheat
Start	63	End	398
GI	none	Score	133
Exons	63..233, 65..187, 225..398, 303..398		

Seq. No.	28001	Seq. ID	OJ000150_02.0124.C2
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Gene No. 57728  
 Start 19321  
 Name OJ000150\_02.0124.C2.o3.ts  
 Start 387  
 GI none  
 Exons 387..575, 389..532

Strand -  
 End 19507  
 Method TBLASTX:Soybean  
 End 575  
 Score 184

Seq. No. 28001  
 Gene No. 57728  
 Start 19321  
 Name OJ000150\_02.0124.C2.o1.tw  
 Start 402  
 GI none  
 Exons 402..563, 407..535, 572..703,

Seq. ID OJ000150\_02.0124.C2  
 Strand -  
 End 19507  
 Method TBLASTX:Wheat  
 End 830  
 Score 133  
 573..830, 781..819

Seq. No. 28001  
 Gene No. 57728  
 Start 19321  
 Name OJ000150\_02.0124.C2.o1.tm  
 Start 576  
 GI none  
 Exons 576..983, 599..787, 830..931,

Seq. ID OJ000150\_02.0124.C2  
 Strand -  
 End 19507  
 Method TBLASTX:Maize  
 End 1238  
 Score 337  
 1004..1180, 1008..1238

Seq. No. 28001  
 Gene No. 57728  
 Start 19321  
 Name OJ000150\_02.0124.C2.o1.tc  
 Start 585  
 GI none  
 Exons 585..758, 765..857, 857..982,

Seq. ID OJ000150\_02.0124.C2  
 Strand -  
 End 19507  
 Method TBLASTX:Cress  
 End 1240  
 Score 110  
 858..983, 1014..1235, 1022..1240

Seq. No. 28001  
 Gene No. 57728  
 Start 19321  
 Name OJ000150\_02.0124.C2.o1.ts  
 Start 594  
 GI none  
 Exons 594..1268, 594..749, 596..1114, 1203..1289

Seq. ID OJ000150\_02.0124.C2  
 Strand -  
 End 19507  
 Method TBLASTX:Soybean  
 End 1289  
 Score 660

Seq. No. 28001  
 Gene No. 57728  
 Start 19321  
 Name OJ000150\_02.0124.C2.o3.tm  
 Start 2927  
 GI none  
 Exons 2927..3115, 2927..3109, 2941..3111, 3803..3850, 3804..3893,

Seq. ID OJ000150\_02.0124.C2  
 Strand -  
 End 19507  
 Method TBLASTX:Maize  
 End 3959  
 Score 174  
 3805..3915, 3805..3894, 3894..3959, 3898..3948, 3900..3956

Seq. No. 28001  
 Gene No. 57728  
 Start 19321  
 Name OJ000150\_02.0124.C2.o2.ts  
 Start 3804  
 GI none  
 Exons 3804..3986, 3805..3927

Seq. ID OJ000150\_02.0124.C2  
 Strand -  
 End 19507  
 Method TBLASTX:Soybean  
 End 3986  
 Score 88

Seq. No. 28001

Seq. ID OJ000150\_02.0124.C2

Gene No. 57728  
 Start 19321  
 Name OJ000150\_02.0124.C2.o6.gs  
 Start 19321  
 GI none  
 Exons 19321..19507

Strand -  
 End 19507  
 Method GENSCAN  
 End 19507  
 Score .51

Seq. No. 28002  
 Gene No. 57729  
 Start 1588  
 Name OJ000150\_02.0124.C3.o1.gs  
 Start 1588  
 GI none  
 Exons 1588..1782, 2054..2229, 3193..3235, 3558..3587, 5417..5584

Seq. ID OJ000150\_02.0124.C3  
 Strand +  
 End 5584  
 Method GENSCAN  
 End 5584  
 Score .47

Seq. No. 28002  
 Gene No. 57729  
 Start 1588  
 Name OJ000150\_02.0124.C3.o2.gp  
 Start 2993  
 GI 286806  
 Exons 2993..3143  
 GI Descrip. 5441872/dbj|AP000366.1|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)

Seq. ID OJ000150\_02.0124.C3  
 Strand +  
 End 5584  
 Method AAT/GAP  
 End 3143  
 Score 253

Seq. No. 28002  
 Gene No. 57730  
 Start 1136  
 Name OJ000150\_02.0124.C3.o1.np  
 Start 1136  
 GI 6539570  
 Exons 1136..1202, 1362..1555  
 GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. ID OJ000150\_02.0124.C3  
 Strand -  
 End 1555  
 Method AAT/NAP  
 End 1555  
 Score 192

Seq. No. 28002  
 Gene No. 57731  
 Start 1689  
 Name OJ000150\_02.0124.C3.o2.np  
 Start 1689  
 GI 6630699  
 Exons 1689..1767, 3004..3033  
 GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
 gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. ID OJ000150\_02.0124.C3  
 Strand -  
 End 3033  
 Method AAT/NAP  
 End 3033  
 Score 57

Seq. No. 28002  
 Gene No. 57732  
 Start 6499  
 Name OJ000150\_02.0124.C3.o2.gs  
 Start 6499  
 GI none  
 Exons 6499..6589, 6664..6835, 7167..7260

Seq. ID OJ000150\_02.0124.C3  
 Strand -  
 End 7260  
 Method GENSCAN  
 End 7260  
 Score .47

Seq. No. 28002  
 Gene No. 57732  
 Start 6499  
 Name OJ000150\_02.0124.C3.o3.np

Seq. ID OJ000150\_02.0124.C3  
 Strand -  
 End 7260  
 Method AAT/NAP

Start	6651	End	6956
GI	6539588	Score	151
Exons	6651..6956		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	28002	Seq. ID	OJ000150_02.0124.C3
Gene No.	57733	Strand	-
Start	8887	End	9533
Name	OJ000150_02.0124.C3.o1.ts	Method	TBLASTX:Soybean
Start	8878	End	9531
GI	none	Score	241
Exons	8878..9138, 9157..9531		

Seq. No.	28002	Seq. ID	OJ000150_02.0124.C3
Gene No.	57733	Strand	-
Start	8887	End	9533
Name	OJ000150_02.0124.C3.o4.np	Method	AAT/NAP
Start	8887	End	9533
GI	4416302	Score	638
Exons	8887..9533		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	28002	Seq. ID	OJ000150_02.0124.C3
Gene No.	57733	Strand	-
Start	8887	End	9533
Name	OJ000150_02.0124.C3.o1.tm	Method	TBLASTX:Maize
Start	8908	End	9531
GI	none	Score	42
Exons	8908..9531, 8918..8977, 8923..9276, 9008..9520		

Seq. No.	28002	Seq. ID	OJ000150_02.0124.C3
Gene No.	57733	Strand	-
Start	8887	End	9533
Name	OJ000150_02.0124.C3.o1.tw	Method	TBLASTX:Wheat
Start	8953	End	9387
GI	none	Score	87
Exons	8953..9144, 8953..9129, 9148..9387		

Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57734	Strand	-
Start	1	End	12009
Name	OJ000150_02.0124.C4.o1.np	Method	AAT/NAP
Start	1	End	2121
GI	3645899	Score	1155
Exons	1..1797, 1826..2121		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57734	Strand	-
Start	1	End	12009
Name	OJ000150_02.0124.C4.o1.gs	Method	GENSCAN
Start	75	End	11688
GI	none	Score	.47
Exons	75..992, 1270..1622, 2053..2116, 2297..2369, 2501..2727, 2801..3029, 3384..4095, 4650..4867, 5550..5655, 5855..5994, 7160..7183, 9013..9208, 10965..11156, 11206..11397, 11579..11688		

Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57734	Strand	-
Start	1	End	12009
Name	OJ000150_02.0124.C4.o2.np	Method	AAT/NAP
Start	3302	End	4928
GI	6539588	Score	175
Exons	3302..3326, 4642..4928		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		
Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57734	Strand	-
Start	1	End	12009
Name	OJ000150_02.0124.C4.o3.np	Method	AAT/NAP
Start	7828	End	12009
GI	5001454	Score	93
Exons	7828..7846, 9814..10152, 11988..12009		
GI Descrip.	(AC007730) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		
Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o1.ts	Method	TBLASTX:Soybean
Start	1	End	489
GI	5509260	Score	64
Exons	1..63, 1..72, 5..133, 5..139, 136..417, 179..382, 196..426, 418..489, 439..489		
GI Descrip.	-		
Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o2.tw	Method	TBLASTX:Wheat
Start	4	End	361
GI	none	Score	57
Exons	4..66, 5..70, 136..291, 179..229, 271..360, 272..361		
Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o2.tm	Method	TBLASTX:Maize
Start	34	End	351
GI	none	Score	95
Exons	34..351, 179..334		
Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o1.tm	Method	TBLASTX:Maize
Start	805	End	1441
GI	none	Score	79
Exons	805..957, 943..1032, 953..1033, 1076..1375, 1077..1313, 1374..1436, 1376..1441		
Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987

Name	OJ000150_02.0124.C4.o2.ts	Method	TBLASTX:Soybean
Start	805	End	1267
GI	none	Score	114
Exons	805..933, 955..1032, 1076..1267, 1077..1247		

Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o1.tc	Method	TBLASTX:Cress
Start	811	End	1249
GI	none	Score	83
Exons	811..948, 818..946, 958..1032, 1076..1249, 1085..1171, 1164..1241		

Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o1.tw	Method	TBLASTX:Wheat
Start	1109	End	1666
GI	none	Score	138
Exons	1109..1396, 1110..1283, 1118..1288, 1396..1422, 1436..1666		

Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o3.tw	Method	TBLASTX:Wheat
Start	8959	End	9327
GI	none	Score	63
Exons	8959..9081, 8959..9084, 9136..9327		

Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o3.tm	Method	TBLASTX:Maize
Start	9052	End	9525
GI	none	Score	79
Exons	9052..9084, 9151..9396, 9399..9422, 9424..9525		

Seq. No.	28003	Seq. ID	OJ000150_02.0124.C4
Gene No.	57735	Strand	-
Start	12373	End	14987
Name	OJ000150_02.0124.C4.o2.gs	Method	GENSCAN
Start	12373	End	14987
GI	none	Score	.79
Exons	12373..12484, 13105..13226, 13724..13778, 14762..14825, 14870..14987		

Seq. No.	28004	Seq. ID	OJ000150_02.0124.C5
Gene No.	57736	Strand	-
Start	313	End	3646
Name	OJ000150_02.0124.C5.o1.gs	Method	GENSCAN
Start	313	End	3548
GI	none	Score	.72
Exons	313..498, 578..676, 819..843, 928..1038, 1135..1308, 1418..2103, 2105..2250, 2376..2517, 2592..2711, 2757..3548		

Seq. No.	28004	Seq. ID	OJ000150_02.0124.C5
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Gene No.	57736	Strand	-
Start	313	End	3646
Name	OJ000150_02.0124.C5.o1.np	Method	AAT/NAP
Start	331	End	3646
GI	4680204	Score	962
Exons	331..468, 819..1038, 1135..1308, 1418..2517, 2592..3646		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	28004	Seq. ID	OJ000150_02.0124.C5
Gene No.	57736	Strand	-
Start	313	End	3646
Name	OJ000150_02.0124.C5.o2.tw	Method	TBLASTX:Wheat
Start	969	End	1491
GI	none	Score	64
Exons	969..1040, 1140..1322, 1147..1266, 1411..1491		

Seq. No.	28004	Seq. ID	OJ000150_02.0124.C5
Gene No.	57736	Strand	-
Start	313	End	3646
Name	OJ000150_02.0124.C5.o1.tw	Method	TBLASTX:Wheat
Start	2982	End	3385
GI	none	Score	42
Exons	2982..3077, 2982..3152, 3115..3282, 3147..3383, 3234..3383, 3245..3385, 3275..3385		

Seq. No.	28005	Seq. ID	OJ000150_02.0124.C6
Gene No.	57737	Strand	-
Start	1	End	695
Name	OJ000150_02.0124.C6.o1.np	Method	AAT/NAP
Start	1	End	695
GI	4680204	Score	215
Exons	1..199, 274..695		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	28005	Seq. ID	OJ000150_02.0124.C6
Gene No.	57737	Strand	-
Start	1	End	695
Name	OJ000150_02.0124.C6.o1.gs	Method	GENSCAN
Start	58	End	597
GI	none	Score	.5
Exons	58..199, 274..597		

Seq. No.	28006	Seq. ID	OJ000150_02.0124.C7
Gene No.	57738	Strand	+
Start	167	End	253
Name	OJ000150_02.0124.C7.o1.gs	Method	GENSCAN
Start	167	End	253
GI	none	Score	.78
Exons	167..253		

Seq. No.	28007	Seq. ID	OJ000150_02.0124.C8
Gene No.	57739	Strand	-
Start	1	End	980
Name	OJ000150_02.0124.C8.o1.np	Method	AAT/NAP
Start	1	End	980
GI	3236253	Score	482
Exons	1..980		



GI Descrip. (AC004684) putative receptor-like protein kinase [Arabidopsis thaliana]

Seq. No.	28007	Seq. ID	OJ000150_02.0124.C8
Gene No.	57739	Strand	-
Start	1	End	980
Name	OJ000150_02.0124.C8.o1.gs	Method	GENSCAN
Start	59	End	974
GI	none	Score	.55
Exons	59..388, 486..974		

Seq. No.	28007	Seq. ID	OJ000150_02.0124.C8
Gene No.	57739	Strand	-
Start	1	End	980
Name	OJ000150_02.0124.C8.o1.tc	Method	TBLASTX:Cress
Start	137	End	869
GI	none	Score	71
Exons	137..286, 138..284, 299..394, 303..410, 411..587, 412..561, 576..734, 580..612, 756..794, 795..869		

Seq. No.	28007	Seq. ID	OJ000150_02.0124.C8
Gene No.	57739	Strand	-
Start	1	End	980
Name	OJ000150_02.0124.C8.o1.tm	Method	TBLASTX:Maize
Start	368	End	890
GI	none	Score	47
Exons	368..394, 432..584, 433..573, 523..711, 567..734, 801..890		

Seq. No.	28007	Seq. ID	OJ000150_02.0124.C8
Gene No.	57739	Strand	-
Start	1	End	980
Name	OJ000150_02.0124.C8.o1.ts	Method	TBLASTX:Soybean
Start	454	End	734
GI	none	Score	78
Exons	454..555, 456..575, 582..734		

Seq. No.	28008	Seq. ID	OJ000150_02.0124.C11
Gene No.	57740	Strand	+
Start	1	End	479
Name	OJ000150_02.0124.C11.o1.np	Method	AAT/NAP
Start	1	End	479
GI	6723412	Score	444
Exons	1..479		

GI Descrip. (AL132965) receptor protein kinase-like protein [Arabidopsis thaliana]

Seq. No.	28008	Seq. ID	OJ000150_02.0124.C11
Gene No.	57740	Strand	+
Start	1	End	479
Name	OJ000150_02.0124.C11.o1.tm	Method	TBLASTX:Maize
Start	1	End	478
GI	none	Score	73
Exons	1..111, 205..420, 220..471, 255..398, 292..471, 311..457, 440..478		

Seq. No.	28008	Seq. ID	OJ000150_02.0124.C11
Gene No.	57740	Strand	+

Start	1	End	479
Name	OJ000150_02.0124.C11.ol.tc	Method	TBLASTX:Cress
Start	1	End	479
GI	none	Score	40
Exons	1..93, 145..306, 151..420, 205..477, 205..420, 211..420, 211..426, 238..357, 256..444, 258..398, 273..377, 331..423, 334..462, 430..468, 441..479		

Seq. No.	28008	Seq. ID	OJ000150_02.0124.C11
Gene No.	57740	Strand	+
Start	1	End	479
Name	OJ000150_02.0124.C11.ol.ts	Method	TBLASTX:Soybean
Start	4	End	471
GI	none	Score	70
Exons	4..105, 151..414, 205..432, 211..423, 430..471		

Seq. No.	28008	Seq. ID	OJ000150_02.0124.C11
Gene No.	57740	Strand	+
Start	1	End	479
Name	OJ000150_02.0124.C11.ol.gs	Method	GENSCAN
Start	34	End	421
GI	none	Score	.62
Exons	34..421		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57741	Strand	+
Start	1	End	872
Name	OJ000150_02.0124.C12.ol.np	Method	AAT/NAP
Start	1	End	872
GI	2827715	Score	918
Exons	1..373, 606..872		
GI Descrip.	(AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57741	Strand	+
Start	1	End	872
Name	OJ000150_02.0124.C12.ol.gs	Method	GENSCAN
Start	88	End	814
GI	none	Score	.74
Exons	88..373, 606..814		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57742	Strand	-
Start	732	End	872
Name	OJ000150_02.0124.C12.ol.tm	Method	TBLASTX:Maize
Start	55	End	679
GI	none	Score	460
Exons	55..228, 57..371, 58..372, 271..381, 575..679, 580..678		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57742	Strand	-
Start	732	End	872
Name	OJ000150_02.0124.C12.ol.ts	Method	TBLASTX:Soybean
Start	55	End	871
GI	none	Score	437
Exons	55..210, 58..372, 60..371, 271..372, 575..871, 601..864		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57742	Strand	-
Start	732	End	872
Name	OJ000150_02.0124.C12.o1.tw	Method	TBLASTX:Wheat
Start	56	End	276
GI	none	Score	92
Exons	56..268, 56..268, 57..275, 58..276		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57742	Strand	-
Start	732	End	872
Name	OJ000150_02.0124.C12.o1.tc	Method	TBLASTX:Cress
Start	58	End	646
GI	none	Score	451
Exons	58..372, 60..398, 78..374, 575..646, 601..645		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57742	Strand	-
Start	732	End	872
Name	OJ000150_02.0124.C12.o2.tc	Method	TBLASTX:Cress
Start	647	End	871
GI	none	Score	145
Exons	647..739, 649..759, 682..750, 767..871		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57742	Strand	-
Start	732	End	872
Name	OJ000150_02.0124.C12.o2.tm	Method	TBLASTX:Maize
Start	700	End	871
GI	none	Score	246
Exons	700..870, 701..871		

Seq. No.	28009	Seq. ID	OJ000150_02.0124.C12
Gene No.	57742	Strand	-
Start	732	End	872
Name	OJ000150_02.0124.C12.o1.gp	Method	AAT/GAP
Start	732	End	872
GI	LIB3433-049-P1-K1-H6	Score	253
Exons	732..872		
GI Descrip.	'2827715/emb CAA16688  1.0e-22 (AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]'		

Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
Gene No.	57743	Strand	+
Start	1	End	669
Name	OJ000150_02.0124.C13.o1.np	Method	AAT/NAP
Start	1	End	666
GI	2827715	Score	473
Exons	1..60, 154..538, 611..666		
GI Descrip.	(AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
Gene No.	57743	Strand	+
Start	1	End	669
Name	OJ000150_02.0124.C13.o1.gs	Method	GENSCAN

Start	124	End	669
GI	none	Score	1
Exons	124..669		
Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
Gene No.	57744	Strand	+
Start	688	End	1142
Name	OJ000150_02.0124.C13.o1.gp	Method	AAT/GAP
Start	688	End	1142
GI	uC-osflcyp030f12b1	Score	902...
Exons	688..1142		
GI Descrip.	'3540181 4.0e-12 (AC004122) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
Gene No.	57745	Strand	-
Start	2198	End	7044
Name	OJ000150_02.0124.C13.o2.tc	Method	TBLASTX:Cress
Start	151	End	495
GI	none	Score	228
Exons	151..318, 157..297, 180..338, 318..491, 346..495		

Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
Gene No.	57745	Strand	-
Start	2198	End	7044
Name	OJ000150_02.0124.C13.o2.tm	Method	TBLASTX:Maize
Start	154	End	501
GI	none	Score	239
Exons	154..327, 166..297, 180..338, 318..476, 318..500, 331..501		

Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
Gene No.	57745	Strand	-
Start	2198	End	7044
Name	OJ000150_02.0124.C13.o2.ts	Method	TBLASTX:Soybean
Start	154	End	585
GI	none	Score	503
Exons	154..585, 180..494		

Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
Gene No.	57745	Strand	-
Start	2198	End	7044
Name	OJ000150_02.0124.C13.o1.tw	Method	TBLASTX:Wheat
Start	379	End	678
GI	none	Score	181
Exons	379..510, 388..510, 390..521, 514..678, 582..623, 612..665		

Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
Gene No.	57745	Strand	-
Start	2198	End	7044
Name	OJ000150_02.0124.C13.o2.gs	Method	GENSCAN
Start	2198	End	6750
GI	none	Score	.63
Exons	2198..2238, 2992..3080, 3469..3634, 4028..4052, 4853..4921, 5096..5125, 5209..5298, 5374..5409, 6049..6132, 6233..6322, 6436..6750		

Seq. No.	28010	Seq. ID	OJ000150_02.0124.C13
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Gene No. 57745 Strand -  
 Start 2198 End 7044  
 Name OJ000150\_02.0124.C13.o2.gp Method AAT/GAP  
 Start 4654 End 6751  
 GI 1278\_1.R1084 Score 1769  
 Exons 4654..4921, 5030..5125, 5209..5298, 5374..5409, 6049..6132,  
 6233..6322, 6436..6751  
 GI Descrip. '3183079/sp|Q42972|MDHG\_ORYSA 1.0e-167 MALATE DEHYDROGENASE,  
 GLYOXYSOMAL PRECURSOR >gi\_1375075\_dbj\_BAA12870.1\_ (D85763)  
 glyoxysomal malate dehydrogenase [Oryza sativa]'

Seq. No. 28010 Seq. ID OJ000150\_02.0124.C13  
 Gene No. 57745 Strand -  
 Start 2198 End 7044  
 Name OJ000150\_02.0124.C13.o1.tc Method TBLASTX:Cress  
 Start 4799 End 6751  
 GI none Score 80  
 Exons 4799..4927, 4849..4929, 4872..4931, 5029..5067, 5052..5126,  
 5052..5126, 5066..5143, 5206..5304, 5207..5299, 5350..5418,  
 5375..5422, 6043..6147, 6050..6148, 6230..6322, 6231..6323,  
 6424..6750, 6425..6751

Seq. No. 28010 Seq. ID OJ000150\_02.0124.C13  
 Gene No. 57745 Strand -  
 Start 2198 End 7044  
 Name OJ000150\_02.0124.C13.o1.tm Method TBLASTX:Maize  
 Start 4835 End 6775  
 GI none Score 35  
 Exons 4835..4861, 4856..4927, 4859..4927, 5036..5125, 5037..5129,  
 5206..5304, 5207..5293, 5350..5418, 5375..5422, 6043..6147,  
 6050..6148, 6230..6319, 6231..6320, 6425..6775, 6436..6750

Seq. No. 28010 Seq. ID OJ000150\_02.0124.C13  
 Gene No. 57745 Strand -  
 Start 2198 End 7044  
 Name OJ000150\_02.0124.C13.o1.ts Method TBLASTX:Soybean  
 Start 4843 End 6751  
 GI none Score 47  
 Exons 4843..4929, 5029..5067, 5030..5065, 5051..5125, 5052..5126,  
 5206..5304, 5207..5305, 5374..5418, 5375..5422, 6043..6147,  
 6050..6127, 6230..6322, 6237..6323, 6424..6750, 6425..6751

Seq. No. 28010 Seq. ID OJ000150\_02.0124.C13  
 Gene No. 57745 Strand -  
 Start 2198 End 7044  
 Name OJ000150\_02.0124.C13.o2.np Method AAT/NAP  
 Start 4852 End 7044  
 GI 3183079 Score 942  
 Exons 4852..4921, 5030..5125, 5209..5298, 5374..5409, 6049..6132,  
 6233..6322, 6436..6750, 6967..7044  
 GI Descrip. MALATE DEHYDROGENASE, GLYOXYSOMAL PRECURSOR  
 gi|1375075|dbj|BAA12870.1| (D85763) glyoxysomal malate  
 dehydrogenase [Oryza sativa]

Seq. No. 28010 Seq. ID OJ000150\_02.0124.C13  
 Gene No. 57745 Strand -  
 Start 2198 End 7044

Name OJ000150\_02.0124.C13.o2.tw  
 Start 6607  
 GI none  
 Exons 6607..6750, 6611..6751

Method TBLASTX:Wheat  
 End 6751  
 Score 201

Seq. No. 28010  
 Gene No. 57745  
 Start 2198  
 Name OJ000150\_02.0124.C13.o3.gp  
 Start 6763  
 GI none  
 Exons 6763..7044

Seq. ID OJ000150\_02.0124.C13  
 Strand -  
 End 7044  
 Method AAT/GAP  
 End 7044  
 Score 545

Seq. No. 28011  
 Gene No. 57746  
 Start 219  
 Name OJ000150\_02.0124.C14.o1.gs  
 Start 219  
 GI none  
 Exons 219..434

Seq. ID OJ000150\_02.0124.C14  
 Strand -  
 End 434  
 Method GENSCAN  
 End 434  
 Score .6

Seq. No. 28012  
 Gene No. 57747  
 Start 58  
 Name OJ000150\_02.0124.C15.o1.gs  
 Start 58  
 GI none  
 Exons 58..222, 375..460

Seq. ID OJ000150\_02.0124.C15  
 Strand +  
 End 460  
 Method GENSCAN  
 End 460  
 Score .79

Seq. No. 28013  
 Gene No. 57748  
 Start 1  
 Name OJ000150\_02.0124.C17.o1.gp  
 Start 1  
 GI none  
 Exons 1..110

Seq. ID OJ000150\_02.0124.C17  
 Strand -  
 End 110  
 Method AAT/GAP  
 End 110  
 Score 208

Seq. No. 28014  
 Gene No. 57749  
 Start 590  
 Name OJ000150\_02.0124.C18.o1.gp  
 Start 590  
 GI none  
 Exons 590..669

Seq. ID OJ000150\_02.0124.C18  
 Strand +  
 End 669  
 Method AAT/GAP  
 End 669  
 Score 148

Seq. No. 28015  
 Gene No. 57750  
 Start 192  
 Name OJ000150\_02.0124.C19.o1.gs  
 Start 192  
 GI none  
 Exons 192..478

Seq. ID OJ000150\_02.0124.C19  
 Strand -  
 End 478  
 Method GENSCAN  
 End 478  
 Score .76

Seq. No. 28016  
 Gene No. 57751  
 Start 1  
 Name OJ000150\_02.0124.C20.o1.gp

Seq. ID OJ000150\_02.0124.C20  
 Strand -  
 End 570  
 Method AAT/GAP

Start	1	End	562
GI	39293_1.R1084	Score	988
Exons	1..562		
GI Descrip.	'730461/sp P41057 R29A_YEAST 3.0e-17 40S RIBOSOMAL PROTEIN YS29A >gi_626904_pir_S48503_ribosomal protein S29.e.A, cytosolic - yeast (Saccharomyces cerevisiae) >gi_287628_dbj_BAA03507_ (D14676) ribosomal protein YS29 [Saccharomyces cerevisiae] >gi_625108 (U19729) Ylr388wp [Saccharomyces cerevisiae]'		

Seq. No.	28016	Seq. ID	OJ000150_02.0124.C20
Gene No.	57751	Strand	-
Start	1	End	570
Name	OJ000150_02.0124.C20.o1.gs	Method	GENSCAN
Start	439	End	570
GI	none	Score	1
Exons	439..570		

Seq. No.	28017	Seq. ID	OJ000150_02.0124.C21
Gene No.	57752	Strand	-
Start	273	End	562
Name	OJ000150_02.0124.C21.o1.gs	Method	GENSCAN
Start	273	End	562
GI	none	Score	.73
Exons	273..399, 472..562		

Seq. No.	28018	Seq. ID	OJ000150_02.0124.C23
Gene No.	57753	Strand	+
Start	1	End	1107
Name	OJ000150_02.0124.C23.o1.np	Method	AAT/NAP
Start	1	End	1107
GI	4883612	Score	232
Exons	1..45, 364..473, 1010..1107		
GI Descrip.	(AC006922) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	28018	Seq. ID	OJ000150_02.0124.C23
Gene No.	57753	Strand	+
Start	1	End	1107
Name	OJ000150_02.0124.C23.o1.gs	Method	GENSCAN
Start	364	End	473
GI	none	Score	.43
Exons	364..473		

Seq. No.	28019	Seq. ID	OJ000150_02.0124.C24
Gene No.	57754	Strand	-
Start	341	End	1108
Name	OJ000150_02.0124.C24.o1.np	Method	AAT/NAP
Start	218	End	540
GI	2197016	Score	162
Exons	218..540		
GI Descrip.	(U96632) D1 protein, photosystem II [Ludisia discolor]		

Seq. No.	28019	Seq. ID	OJ000150_02.0124.C24
Gene No.	57754	Strand	-
Start	341	End	1108
Name	OJ000150_02.0124.C24.o1.tm	Method	TBLASTX:Maize
Start	235	End	501
GI	none	Score	40

Exons 235..261, 262..348, 264..350, 328..402, 342..434, 343..435, 344..439, 443..499, 444..500, 460..501, 462..500

Seq. No.	28019	Seq. ID	OJ000150_02.0124.C24
Gene No.	57754	Strand	-
Start	341	End	1108
Name	OJ000150_02.0124.C24.o1.gs	Method	GENSCAN
Start	341	End	1108
GI	none	Score	.54
Exons	341..456, 474..763, 970..1108		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972
Name	OJ000150_02.0124.C26.o1.gp	Method	AAT/GAP
Start	1	End	131
GI	2311570	Score	251
Exons	1..131		
GI Descrip.	3540181 2.0e-13 (AC004122) Unknown protein [Arabidopsis thaliana]		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972
Name	OJ000150_02.0124.C26.o1.np	Method	AAT/NAP
Start	1	End	959
GI	3540181	Score	848
Exons	1..959		
GI Descrip.	(AC004122) Unknown protein [Arabidopsis thaliana]		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972
Name	OJ000150_02.0124.C26.o2.ts	Method	TBLASTX:Soybean
Start	3	End	386
GI	none	Score	75
Exons	3..83, 128..259, 132..275, 336..386, 347..385		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972
Name	OJ000150_02.0124.C26.o1.gs	Method	GENSCAN
Start	74	End	967
GI	none	Score	.65
Exons	74..967		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972
Name	OJ000150_02.0124.C26.o1.tc	Method	TBLASTX:Cress
Start	185	End	536
GI	none	Score	100
Exons	185..259, 186..260, 333..485, 356..484, 492..536		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972



Name	OJ000150_02.0124.C26.o2.gp	Method	AAT/GAP
Start	406	End	860
GI	73153_1.R1084	Score	842
Exons	406..860		
GI Descrip.	'3540181 2.0e-31 (AC004122) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972
Name	OJ000150_02.0124.C26.o1.ts	Method	TBLASTX:Soybean
Start	429	End	941
GI	none	Score	170
Exons	429..548, 434..490, 549..581, 579..668, 581..667, 759..941, 761..940		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972
Name	OJ000150_02.0124.C26.o2.tm	Method	TBLASTX:Maize
Start	480	End	743
GI	none	Score	206
Exons	480..644, 569..634, 602..739, 603..743		

Seq. No.	28020	Seq. ID	OJ000150_02.0124.C26
Gene No.	57755	Strand	+
Start	1	End	972
Name	OJ000150_02.0124.C26.o1.tm	Method	TBLASTX:Maize
Start	753	End	972
GI	none	Score	244
Exons	753..962, 755..970, 901..972		

Seq. No.	28021	Seq. ID	OJ000150_02.0124.C27
Gene No.	57756	Strand	-
Start	352	End	471
Name	OJ000150_02.0124.C27.o1.gs	Method	GENSCAN
Start	352	End	471
GI	none	Score	.61
Exons	352..471		

Seq. No.	28022	Seq. ID	OJ000150_02.0124.C29
Gene No.	57757	Strand	-
Start	507	End	569
Name	OJ000150_02.0124.C29.o1.gs	Method	GENSCAN
Start	507	End	569
GI	none	Score	.92
Exons	507..569		

Seq. No.	28023	Seq. ID	OJ000150_02.0124.C32
Gene No.	57758	Strand	-
Start	897	End	2157
Name	OJ000150_02.0124.C32.o1.gs	Method	GENSCAN
Start	897	End	2157
GI	none	Score	.44
Exons	897..1001, 2106..2157		

Seq. No.	28024	Seq. ID	OJ000150_02.0124.C33
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Gene No.	57759	Strand	+
Start	1	End	488
Name	OJ000150_02.0124.C33.o1.np	Method	AAT/NAP
Start	1	End	488
GI	4416302	Score	493
Exons	1..488		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		
Seq. No.	28024	Seq. ID	OJ000150_02.0124.C33
Gene No.	57759	Strand	+
Start	1	End	488
Name	OJ000150_02.0124.C33.o1.ts	Method	TBLASTX:Soybean
Start	2	End	231
GI	5509260	Score	306
Exons	2..226, 27..221, 34..231		
GI Descrip.	-		
Seq. No.	28024	Seq. ID	OJ000150_02.0124.C33
Gene No.	57759	Strand	+
Start	1	End	488
Name	OJ000150_02.0124.C33.o1.tw	Method	TBLASTX:Wheat
Start	2	End	223
GI	none	Score	242
Exons	2..217, 37..207, 44..223		
Seq. No.	28024	Seq. ID	OJ000150_02.0124.C33
Gene No.	57759	Strand	+
Start	1	End	488
Name	OJ000150_02.0124.C33.o1.tm	Method	TBLASTX:Maize
Start	31	End	469
GI	none	Score	469
Exons	31..267, 32..469, 35..466		
Seq. No.	28025	Seq. ID	OJ000150_02.0124.C35
Gene No.	57760	Strand	+
Start	839	End	2367
Name	OJ000150_02.0124.C35.o1.gs	Method	GENSCAN
Start	839	End	1881
GI	none	Score	.57
Exons	839..1202, 1750..1881		
Seq. No.	28025	Seq. ID	OJ000150_02.0124.C35
Gene No.	57760	Strand	+
Start	839	End	2367
Name	OJ000150_02.0124.C35.o1.gp	Method	AAT/GAP
Start	1758	End	2367
GI	39293_1.R1084	Score	1114
Exons	1758..2367		
GI Descrip.	'730461/sp P41057 R29A_YEAST 3.0e-17 40S RIBOSOMAL PROTEIN YS29A >gi_626904_pir_S48503_ribosomal protein S29.e.A, cytosolic - yeast (Saccharomyces cerevisiae) >gi_287628_dbj_BAA03507_ (D14676) ribosomal protein YS29 [Saccharomyces cerevisiae] >gi_625108 (U19729) Ylr388wp [Saccharomyces cerevisiae]'		
Seq. No.	28026	Seq. ID	OJ000150_02.0124.C36
Gene No.	57761	Strand	+
Start	107	End	15992

Name	OJ000150_02.0124.C36.o1.gs	Method	GENSCAN
Start	107	End	15992
GI	none	Score	.52
Exons	107..162, 177..309, 389..442, 1694..1940, 2940..3292, 4756..4798, 5452..5819, 5910..5996, 6846..7006, 7268..7393, 7428..7459, 7933..8098, 10234..10333, 14131..14168, 15151..15197, 15919..15992		

Seq. No.	28026	Seq. ID	OJ000150_02.0124.C36
Gene No.	57761	Strand	+
Start	107	End	15992
Name	OJ000150_02.0124.C36.o1.np	Method	AAT/NAP
Start	1777	End	7239
GI	6714317	Score	556
Exons	1777..1897, 2940..3292, 4756..4803, 5469..5884, 7204..7239		
GI Descrip.	(AC016972) unknown protein [Arabidopsis thaliana]		

Seq. No.	28026	Seq. ID	OJ000150_02.0124.C36
Gene No.	57761	Strand	+
Start	107	End	15992
Name	OJ000150_02.0124.C36.o2.np	Method	AAT/NAP
Start	3940	End	6740
GI	6714317	Score	99
Exons	3940..3960, 4756..4803, 5469..5884, 6706..6740		
GI Descrip.	(AC016972) unknown protein [Arabidopsis thaliana]		

Seq. No.	28026	Seq. ID	OJ000150_02.0124.C36
Gene No.	57762	Strand	-
Start	5483	End	6201
Name	OJ000150_02.0124.C36.o1.gp	Method	AAT/GAP
Start	5483	End	6201
GI	25547_1.R1084	Score	1330
Exons	5483..6201		
GI Descrip.	'3540181 2.0e-13 (AC004122) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	28026	Seq. ID	OJ000150_02.0124.C36
Gene No.	57763	Strand	-
Start	16500	End	18254
Name	OJ000150_02.0124.C36.o1.tm	Method	TBLASTX:Maize
Start	1797	End	5796
GI	none	Score	175
Exons	1797..1895, 1798..1896, 2933..3175, 2940..3191, 2941..3216, 2942..3253, 3122..3295, 3217..3294, 4755..4799, 5458..5637, 5459..5650, 5466..5717, 5559..5711, 5720..5767, 5722..5796		

Seq. No.	28026	Seq. ID	OJ000150_02.0124.C36
Gene No.	57763	Strand	-
Start	16500	End	18254
Name	OJ000150_02.0124.C36.o1.ts	Method	TBLASTX:Soybean
Start	3014	End	3199
GI	none	Score	244
Exons	3014..3199, 3014..3172		

Seq. No.	28026	Seq. ID	OJ000150_02.0124.C36
Gene No.	57763	Strand	-
Start	16500	End	18254

Name	OJ000150_02.0124.C36.o2.tm	Method	TBLASTX:Maize
Start	14477	End	15751
GI	none	Score	69
Exons	14477..14581, 14477..14614, 14477..14575, 14483..14575, 14505..14582, 14552..14584, 14604..14738, 14638..14730, 14641..14724, 14650..14730, 14652..14795, 14655..14762, 14771..14890, 14772..14876, 14776..14883, 14779..14859, 14782..14862, 14784..14876, 14790..14891, 14793..14867, 14919..15041, 14919..15053, 14930..15082, 14930..15085, 14937..15119, 14940..15047, 14940..15095, 14941..15051, 14942..15118, 14945..15097, 14945..15094, 14951..15070, 15032..15109, 15086..15172, 15086..15172, 15086..15232, 15125..15232, 15158..15232, 15179..15232, 15207..15233, 15287..15430, 15318..15422, 15323..15436, 15324..15425, 15324..15437, 15330..15416, 15333..15437, 15475..15507, 15476..15523, 15497..15580, 15497..15592, 15506..15586, 15668..15751		

Seq. No.	28026	Seq. ID	OJ000150_02.0124.C36
Gene No.	57763	Strand	-
Start	16500	End	18254
Name	OJ000150_02.0124.C36.o2.gs	Method	GENSCAN
Start	16500	End	18254
GI	none	Score	.52
Exons	16500..16688, 17726..17743, 17865..18081, 18178..18254		

Seq. No.	28027	Seq. ID	OJ000150_02.0124.C37
Gene No.	57764	Strand	-
Start	344	End	731
Name	OJ000150_02.0124.C37.o1.gp	Method	AAT/GAP
Start	344	End	731
GI	LIB3477-003-P1-K1-E9	Score	94
Exons	344..409, 709..731		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	28027	Seq. ID	OJ000150_02.0124.C37
Gene No.	57765	Strand	-
Start	1558	End	1800
Name	OJ000150_02.0124.C37.o1.gs	Method	GENSCAN
Start	1558	End	1800
GI	none	Score	.97
Exons	1558..1800		

Seq. No.	28028	Seq. ID	OJ000150_02.0124.C38
Gene No.	57766	Strand	+
Start	1391	End	2220
Name	OJ000150_02.0124.C38.o1.gs	Method	GENSCAN
Start	1391	End	2211
GI	none	Score	.53
Exons	1391..2211		

Seq. No.	28028	Seq. ID	OJ000150_02.0124.C38
Gene No.	57766	Strand	+
Start	1391	End	2220
Name	OJ000150_02.0124.C38.o1.np	Method	AAT/NAP

Start	1499	End	2220
GI	1418331	Score	503
Exons	1499..2220		
GI Descrip.	(X95909) receptor like protein kinase [Arabidopsis thaliana]		

Seq. No.	28028	Seq. ID	OJ000150_02.0124.C38
Gene No.	57766	Strand	+
Start	1391	End	2220
Name	OJ000150_02.0124.C38.ol.tm	Method	TBLASTX:Maize
Start	1565	End	2038
GI	none	Score	172
Exons	1565..1729, 1565..1657, 1714..1821, 1715..1831, 1831..2037, 1832..2038		

Seq. No.	28028	Seq. ID	OJ000150_02.0124.C38
Gene No.	57766	Strand	+
Start	1391	End	2220
Name	OJ000150_02.0124.C38.ol.ts	Method	TBLASTX:Soybean
Start	1580	End	2125
GI	none	Score	94
Exons	1580..1729, 1709..2026, 1732..2025, 2021..2125		

Seq. No.	28028	Seq. ID	OJ000150_02.0124.C38
Gene No.	57766	Strand	+
Start	1391	End	2220
Name	OJ000150_02.0124.C38.ol.tc	Method	TBLASTX:Cress
Start	1604	End	2220
GI	none	Score	79
Exons	1604..1729, 1730..1831, 1850..2035, 2024..2218, 2053..2220		

Seq. No.	28028	Seq. ID	OJ000150_02.0124.C38
Gene No.	57766	Strand	+
Start	1391	End	2220
Name	OJ000150_02.0124.C38.ol.tw	Method	TBLASTX:Wheat
Start	1945	End	2200
GI	none	Score	273
Exons	1945..2196, 1946..2200		

Seq. No.	28029	Seq. ID	OJ000150_02.0124.C39
Gene No.	57767	Strand	+
Start	246	End	996
Name	OJ000150_02.0124.C39.ol.gs	Method	GENSCAN
Start	246	End	566
GI	none	Score	.79
Exons	246..262, 356..566		

Seq. No.	28029	Seq. ID	OJ000150_02.0124.C39
Gene No.	57767	Strand	+
Start	246	End	996
Name	OJ000150_02.0124.C39.ol.np	Method	AAT/NAP
Start	390	End	996
GI	5091604	Score	134
Exons	390..691, 820..996		
GI Descrip.	(AC007858) 10A19I.8 [Oryza sativa]		

Seq. No.	28029	Seq. ID	OJ000150_02.0124.C39
Gene No.	57768	Strand	-

Start	824	End	1460
Name	OJ000150_02.0124.C39.o2.gs	Method	GENSCAN
Start	824	End	1460
GI	none	Score	.7
Exons	824..895, 1016..1109, 1375..1460		

Seq. No.	28030	Seq. ID	OJ000150_02.0124.C45
Gene No.	57769	Strand	-
Start	1	End	556
Name	OJ000150_02.0124.C45.o1.gp	Method	AAT/GAP
Start	1	End	455
GI	137_1.R1084	Score	525
Exons	1..296, 411..455		
GI Descrip.	'2832408/emb CAA74605  4.0e-33 (Y14209) R2R3-MYB transcription factor [Arabidopsis thaliana]'		

Seq. No.	28030	Seq. ID	OJ000150_02.0124.C45
Gene No.	57769	Strand	-
Start	1	End	556
Name	OJ000150_02.0124.C45.o1.tm	Method	TBLASTX:Maize
Start	30	End	455
GI	none	Score	39
Exons	30..71, 36..71, 42..74, 193..243, 198..299, 202..294, 411..455		

Seq. No.	28030	Seq. ID	OJ000150_02.0124.C45
Gene No.	57769	Strand	-
Start	1	End	556
Name	OJ000150_02.0124.C45.o1.gs	Method	GENSCAN
Start	33	End	284
GI	none	Score	.47
Exons	33..284		

Seq. No.	28030	Seq. ID	OJ000150_02.0124.C45
Gene No.	57769	Strand	-
Start	1	End	556
Name	OJ000150_02.0124.C45.o1.np	Method	AAT/NAP
Start	36	End	556
GI	5103727	Score	411
Exons	36..296, 411..556		
GI Descrip.	(AB028884) knotted1-type homeobox protein OSH43 [Oryza sativa]		

Seq. No.	28031	Seq. ID	OJ000150_02.0124.C46
Gene No.	57770	Strand	-
Start	1	End	714
Name	OJ000150_02.0124.C46.o1.np	Method	AAT/NAP
Start	1	End	714
GI	6561965	Score	174
Exons	1..110, 382..714		
GI Descrip.	(AL132964) kinesin-like protein [Arabidopsis thaliana]		

Seq. No.	28031	Seq. ID	OJ000150_02.0124.C46
Gene No.	57770	Strand	-
Start	1	End	714
Name	OJ000150_02.0124.C46.o1.gs	Method	GENSCAN
Start	9	End	473
GI	none	Score	.8
Exons	9..110, 382..473		

Seq. No.	28032	Seq. ID	OJ000150_02.0124.C47
Gene No.	57771	Strand	+
Start	1	End	4329
Name	OJ000150_02.0124.C47.o2.np	Method	AAT/NAP
Start	1	End	4329
GI	4539386	Score	48
Exons	1..106, 3733..3927, 4147..4329		
GI Descrip.	(AL035526) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	28032	Seq. ID	OJ000150_02.0124.C47
Gene No.	57772	Strand	-
Start	466	End	4284
Name	OJ000150_02.0124.C47.o1.gs	Method	GENSCAN
Start	466	End	4284
GI	none	Score	.83
Exons	466..579, 686..830, 1524..1609, 3009..3125, 3237..3314, 3441..3511, 3792..4086, 4165..4284		

Seq. No.	28032	Seq. ID	OJ000150_02.0124.C47
Gene No.	57772	Strand	-
Start	466	End	4284
Name	OJ000150_02.0124.C47.o1.tm	Method	TBLASTX:Maize
Start	475	End	3113
GI	none	Score	99
Exons	475..582, 480..581, 481..582, 671..856, 681..833, 684..857, 686..853, 1524..1610, 1524..1610, 1525..1611, 1709..1729, 3008..3109, 3009..3113, 3009..3113		

Seq. No.	28032	Seq. ID	OJ000150_02.0124.C47
Gene No.	57772	Strand	-
Start	466	End	4284
Name	OJ000150_02.0124.C47.o1.np	Method	AAT/NAP
Start	484	End	3488
GI	6561965	Score	526
Exons	484..579, 686..830, 1524..1609, 3009..3125, 3237..3314, 3441..3488		
GI Descrip.	(AL132964) kinesin-like protein [Arabidopsis thaliana]		

Seq. No.	28033	Seq. ID	OJ000150_02.0124.C48
Gene No.	57773	Strand	+
Start	976	End	1963
Name	OJ000150_02.0124.C48.o1.gs	Method	GENSCAN
Start	976	End	1963
GI	none	Score	.66
Exons	976..1085, 1536..1673, 1864..1963		

Seq. No.	28034	Seq. ID	OJ000150_02.0124.C49
Gene No.	57774	Strand	+
Start	286	End	844
Name	OJ000150_02.0124.C49.o1.gs	Method	GENSCAN
Start	286	End	844
GI	none	Score	.97
Exons	286..616, 816..844		

Seq. No.	28034	Seq. ID	OJ000150_02.0124.C49
Gene No.	57775	Strand	-

Start	1090	End	1495
Name	OJ000150_02.0124.C49.o2.gs	Method	GENSCAN
Start	1090	End	1495
GI	none	Score	.46
Exons	1090..1287, 1411..1495		

Seq. No.	28035	Seq. ID	OJ000150_02.0124.C50
Gene No.	57776	Strand	+
Start	664	End	3127
Name	OJ000150_02.0124.C50.o1.gs	Method	GENSCAN
Start	664	End	3127
GI	none	Score	.46
Exons	664..728, 2551..2668, 2822..2946, 3012..3127		

Seq. No.	28036	Seq. ID	OJ000150_02.0124.C51
Gene No.	57777	Strand	+
Start	1511	End	3617
Name	OJ000150_02.0124.C51.o1.gs	Method	GENSCAN
Start	1511	End	3076
GI	none	Score	.91
Exons	1511..3076		

Seq. No.	28036	Seq. ID	OJ000150_02.0124.C51
Gene No.	57777	Strand	+
Start	1511	End	3617
Name	OJ000150_02.0124.C51.o1.np	Method	AAT/NAP
Start	1887	End	3617
GI	4544402	Score	437
Exons	1887..2517, 2560..3066, 3548..3617		
GI Descrip.	(AC007047) putative LRR receptor protein kinase [Arabidopsis thaliana]		

Seq. No.	28036	Seq. ID	OJ000150_02.0124.C51
Gene No.	57777	Strand	+
Start	1511	End	3617
Name	OJ000150_02.0124.C51.o1.tm	Method	TBLASTX:Maize
Start	2377	End	2824
GI	none	Score	37
Exons	2377..2595, 2391..2447, 2391..2597, 2477..2611, 2587..2757, 2588..2824, 2633..2800		

Seq. No.	28036	Seq. ID	OJ000150_02.0124.C51
Gene No.	57777	Strand	+
Start	1511	End	3617
Name	OJ000150_02.0124.C51.o1.ts	Method	TBLASTX:Soybean
Start	2645	End	3067
GI	none	Score	140
Exons	2645..2785, 2659..2754, 2810..2887, 2866..2940, 2867..2941, 2966..3052, 2971..3039, 3041..3067		

Seq. No.	28036	Seq. ID	OJ000150_02.0124.C51
Gene No.	57777	Strand	+
Start	1511	End	3617
Name	OJ000150_02.0124.C51.o2.tm	Method	TBLASTX:Maize
Start	2884	End	3071
GI	none	Score	295
Exons	2884..3060, 2885..3067, 2889..3071		



Seq. No.	28037	Seq. ID	OJ000150_02.0124.C52
Gene No.	57778	Strand	+
Start	1	End	1839
Name	OJ000150_02.0124.C52.ol.np	Method	AAT/NAP
Start	1	End	1797
GI	4914439	Score	402
Exons	1..30, 362..522, 1265..1797		
GI Descrip.	(AL050351) receptor protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	28037	Seq. ID	OJ000150_02.0124.C52
Gene No.	57778	Strand	+
Start	1	End	1839
Name	OJ000150_02.0124.C52.ol.ts	Method	TBLASTX:Soybean
Start	349	End	1677
GI	none	Score	72
Exons	349..429, 355..429, 362..433, 363..443, 1276..1677, 1286..1387, 1296..1592, 1429..1593		

Seq. No.	28037	Seq. ID	OJ000150_02.0124.C52
Gene No.	57778	Strand	+
Start	1	End	1839
Name	OJ000150_02.0124.C52.ol.tm	Method	TBLASTX:Maize
Start	358	End	1377
GI	none	Score	156
Exons	358..519, 362..493, 364..495, 1255..1377, 1263..1376, 1264..1377		

Seq. No.	28037	Seq. ID	OJ000150_02.0124.C52
Gene No.	57778	Strand	+
Start	1	End	1839
Name	OJ000150_02.0124.C52.ol.gs	Method	GENSCAN
Start	1104	End	1839
GI	none	Score	.97
Exons	1104..1126, 1265..1839		

Seq. No.	28038	Seq. ID	OJ000150_02.0124.C53
Gene No.	57779	Strand	+
Start	56	End	1729
Name	OJ000150_02.0124.C53.ol.gp	Method	AAT/GAP
Start	56	End	1729
GI	2442935	Score	612
Exons	56..149, 408..507, 1546..1729		
GI Descrip.	730461/sp P41057 R29A YEAST 3.0e-17 40S RIBOSOMAL PROTEIN YS29A >gi_626904_pir_S48503 ribosomal protein S29.e.A, cytosolic - yeast (Saccharomyces cerevisiae) >gi_287628_dbj_BAA03507_ (D14676) ribosomal protein YS29 [Saccharomyces cerevisiae] >gi_625108 (U19729) Ylr388wp [Saccharomyces cerevisiae]		

Seq. No.	28038	Seq. ID	OJ000150_02.0124.C53
Gene No.	57779	Strand	+
Start	56	End	1729
Name	OJ000150_02.0124.C53.ol.np	Method	AAT/NAP
Start	67	End	1342
GI	1750404	Score	162
Exons	67..149, 408..523, 1278..1342		
GI Descrip.	(U80953) Similar to 40S ribosomal protein S29; coded for by C.		

elegans cDNA cm10c2; coded for by C. elegans cDNA yk61d8.5;  
 coded for by C. elegans cDNA yk107e8.5; coded for by C. elegans  
 cDNA CEESF55F; coded for by C. elegans cDNA yk107e8.3;...

Seq. No.	28038	Seq. ID	OJ000150_02.0124.C53
Gene No.	57779	Strand	+
Start	56	End	1729
Name	OJ000150_02.0124.C53.o1.tw	Method	TBLASTX:Wheat
Start	73	End	517
GI	none	Score	136
Exons	73..147, 75..149, 407..517, 408..506, 409..510		

Seq. No.	28038	Seq. ID	OJ000150_02.0124.C53
Gene No.	57779	Strand	+
Start	56	End	1729
Name	OJ000150_02.0124.C53.o1.ts	Method	TBLASTX:Soybean
Start	85	End	507
GI	none	Score	116
Exons	85..144, 87..149, 407..505, 408..503, 408..506, 409..507		

Seq. No.	28038	Seq. ID	OJ000150_02.0124.C53
Gene No.	57779	Strand	+
Start	56	End	1729
Name	OJ000150_02.0124.C53.o1.tm	Method	TBLASTX:Maize
Start	378	End	507
GI	none	Score	154
Exons	378..506, 396..506, 403..507		

Seq. No.	28039	Seq. ID	OJ000150_02.0124.C54
Gene No.	57780	Strand	+
Start	706	End	2494
Name	OJ000150_02.0124.C54.o1.gs	Method	GENSCAN
Start	706	End	1174
GI	none	Score	.5
Exons	706..807, 961..1174		

Seq. No.	28039	Seq. ID	OJ000150_02.0124.C54
Gene No.	57780	Strand	+
Start	706	End	2494
Name	OJ000150_02.0124.C54.o1.np	Method	AAT/NAP
Start	933	End	2494
GI	4883612	Score	137
Exons	933..1127, 1227..1305, 2370..2494		
GI Descrip.	(AC006922) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	28039	Seq. ID	OJ000150_02.0124.C54
Gene No.	57781	Strand	-
Start	2131	End	2494
Name	OJ000150_02.0124.C54.o2.np	Method	AAT/NAP
Start	2040	End	2494
GI	6069646	Score	92
Exons	2040..2306, 2455..2494		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	28039	Seq. ID	OJ000150_02.0124.C54
Gene No.	57781	Strand	-
Start	2131	End	2494
Name	OJ000150_02.0124.C54.o2.gs	Method	GENSCAN
Start	2131	End	2262
GI	none	Score	.49
Exons	2131..2262		
Seq. No.	28040	Seq. ID	OJ000150_02.0124.C56
Gene No.	57782	Strand	+
Start	1	End	450
Name	OJ000150_02.0124.C56.o1.np	Method	AAT/NAP
Start	1	End	447
GI	3236253	Score	309
Exons	1..447		
GI Descrip.	(AC004684) putative receptor-like protein kinase [Arabidopsis thaliana]		
Seq. No.	28040	Seq. ID	OJ000150_02.0124.C56
Gene No.	57782	Strand	+
Start	1	End	450
Name	OJ000150_02.0124.C56.o1.ts	Method	TBLASTX:Soybean
Start	13	End	300
GI	none	Score	247
Exons	13..231, 18..299, 19..300		
Seq. No.	28040	Seq. ID	OJ000150_02.0124.C56
Gene No.	57782	Strand	+
Start	1	End	450
Name	OJ000150_02.0124.C56.o1.tc	Method	TBLASTX:Cress
Start	18	End	321
GI	none	Score	65
Exons	18..74, 18..173, 19..321, 192..317		
Seq. No.	28040	Seq. ID	OJ000150_02.0124.C56
Gene No.	57782	Strand	+
Start	1	End	450
Name	OJ000150_02.0124.C56.o1.tm	Method	TBLASTX:Maize
Start	49	End	450
GI	none	Score	477
Exons	49..441, 49..378, 51..389, 384..449, 397..450		
Seq. No.	28041	Seq. ID	OJ000150_02.0124.C57
Gene No.	57783	Strand	-
Start	1	End	676
Name	OJ000150_02.0124.C57.o1.np	Method	AAT/NAP
Start	1	End	676
GI	3236253	Score	534
Exons	1..676		
GI Descrip.	(AC004684) putative receptor-like protein kinase [Arabidopsis thaliana]		
Seq. No.	28041	Seq. ID	OJ000150_02.0124.C57
Gene No.	57783	Strand	-
Start	1	End	676
Name	OJ000150_02.0124.C57.o1.gs	Method	GENSCAN

Start 14  
GI none  
Exons 14..536

End 536  
Score .46

Seq. No. 28041  
Gene No. 57783  
Start 1  
Name OJ000150\_02.0124.C57.ol.ts  
Start 117  
GI none  
Exons 117..674, 415..633

Seq. ID OJ000150\_02.0124.C57  
Strand -  
End 676  
Method TBLASTX:Soybean  
End 674  
Score 84

Seq. No. 28041  
Gene No. 57783  
Start 1  
Name OJ000150\_02.0124.C57.ol.tc  
Start 123  
GI none  
Exons 123..317, 141..317, 339..665, 346..669

Seq. ID OJ000150\_02.0124.C57  
Strand -  
End 676  
Method TBLASTX:Cress  
End 669  
Score 71

Seq. No. 28041  
Gene No. 57783  
Start 1  
Name OJ000150\_02.0124.C57.ol.tm  
Start 339  
GI none  
Exons 339..662, 339..665, 343..675

Seq. ID OJ000150\_02.0124.C57  
Strand -  
End 676  
Method TBLASTX:Maize  
End 675  
Score 218

Seq. No. 28041  
Gene No. 57783  
Start 1  
Name OJ000150\_02.0124.C57.ol.tw  
Start 342  
GI none  
Exons 342..668, 433..576

Seq. ID OJ000150\_02.0124.C57  
Strand -  
End 676  
Method TBLASTX:Wheat  
End 668  
Score 62

Seq. No. 28042  
Gene No. 57784  
Start 384  
Name OJ000150\_02.0124.C58.ol.gs  
Start 384  
GI none  
Exons 384..555

Seq. ID OJ000150\_02.0124.C58  
Strand +  
End 555  
Method GENSCAN  
End 555  
Score .62

Seq. No. 28043  
Gene No. 57785  
Start 51  
Name OJ000150\_02.0124.C59.ol.tw  
Start 40  
GI none  
Exons 40..120, 209..391, 265..384, 491..562

Seq. ID OJ000150\_02.0124.C59  
Strand +  
End 601  
Method TBLASTX:Wheat  
End 562  
Score 60

Seq. No. 28043  
Gene No. 57785  
Start 51  
Name OJ000150\_02.0124.C59.ol.gs  
Start 51

Seq. ID OJ000150\_02.0124.C59  
Strand +  
End 601  
Method GENSCAN  
End 601

GI	none	Score	.69
Exons	51..113, 223..396, 527..601		
Seq. No.	28044	Seq. ID	OJ000150_02.0124.C60
Gene No.	57786	Strand	+
Start	820	End	1101
Name	OJ000150_02.0124.C60.o1.gs	Method	GENSCAN
Start	820	End	1101
GI	none	Score	.78
Exons	820..954, 979..1101		
Seq. No.	28045	Seq. ID	OJ000150_02.0124.C64
Gene No.	57787	Strand	+
Start	111	End	827
Name	OJ000150_02.0124.C64.o1.gp	Method	AAT/GAP
Start	111	End	827
GI	25547_1.R1084	Score	1394
Exons	111..827		
GI Descrip.	'3540181 2.0e-13 (AC004122) Unknown protein [Arabidopsis thaliana]'		
Seq. No.	28045	Seq. ID	OJ000150_02.0124.C64
Gene No.	57788	Strand	-
Start	416	End	872
Name	OJ000150_02.0124.C64.o1.np	Method	AAT/NAP
Start	397	End	839
GI	6714317	Score	112
Exons	397..839		
GI Descrip.	(AC016972) unknown protein [Arabidopsis thaliana]		
Seq. No.	28045	Seq. ID	OJ000150_02.0124.C64
Gene No.	57788	Strand	-
Start	416	End	872
Name	OJ000150_02.0124.C64.o1.gs	Method	GENSCAN
Start	416	End	872
GI	none	Score	.74
Exons	416..872		
Seq. No.	28045	Seq. ID	OJ000150_02.0124.C64
Gene No.	57788	Strand	-
Start	416	End	872
Name	OJ000150_02.0124.C64.o1.tm	Method	TBLASTX:Maize
Start	528	End	852
GI	none	Score	179
Exons	528..713, 545..844, 551..751, 672..851, 673..852		
Seq. No.	28046	Seq. ID	OJ000150_02.0124.C67
Gene No.	57789	Strand	+
Start	361	End	402
Name	OJ000150_02.0124.C67.o1.gs	Method	GENSCAN
Start	361	End	402
GI	none	Score	.6
Exons	361..402		
Seq. No.	28047	Seq. ID	OJ000150_02.0124.C69
Gene No.	57790	Strand	+
Start	1	End	294

Name	OJ000150_02.0124.C69.o1.gp	Method	AAT/GAP
Start	1	End	209
GI	none	Score	245
Exons	1..209		
Seq. No.	28047	Seq. ID	OJ000150_02.0124.C69
Gene No.	57790	Strand	+
Start	1	End	294
Name	OJ000150_02.0124.C69.o1.gs	Method	GENSCAN
Start	54	End	294
GI	none	Score	.8
Exons	54..294		
Seq. No.	28048	Seq. ID	OJ000150_02.0124.C70
Gene No.	57791	Strand	+
Start	148	End	1183
Name	OJ000150_02.0124.C70.o2.tm	Method	TBLASTX:Maize
Start	2	End	191
GI	none	Score	246
Exons	2..190, 3..191, 3..191		
Seq. No.	28048	Seq. ID	OJ000150_02.0124.C70
Gene No.	57791	Strand	+
Start	148	End	1183
Name	OJ000150_02.0124.C70.o1.np	Method	AAT/NAP
Start	148	End	1183
GI	421954	Score	541
Exons	148..1183		
GI Descrip.	hypothetical protein 3 - potato transposon Tst1 gi 21433 emb CAA36615  (X52387) ORF3 [Solanum tuberosum]		
Seq. No.	28048	Seq. ID	OJ000150_02.0124.C70
Gene No.	57791	Strand	+
Start	148	End	1183
Name	OJ000150_02.0124.C70.o1.tm	Method	TBLASTX:Maize
Start	293	End	746
GI	none	Score	451
Exons	293..661, 303..662, 438..662, 661..732, 666..746, 666..746		
Seq. No.	28048	Seq. ID	OJ000150_02.0124.C70
Gene No.	57791	Strand	+
Start	148	End	1183
Name	OJ000150_02.0124.C70.o1.ts	Method	TBLASTX:Soybean
Start	537	End	977
GI	none	Score	43
Exons	537..566, 600..683, 693..977, 731..976		
Seq. No.	28048	Seq. ID	OJ000150_02.0124.C70
Gene No.	57791	Strand	+
Start	148	End	1183
Name	OJ000150_02.0124.C70.o1.tw	Method	TBLASTX:Wheat
Start	585	End	982
GI	none	Score	272
Exons	585..977, 718..978, 719..976, 878..982		
Seq. No.	28048	Seq. ID	OJ000150_02.0124.C70
Gene No.	57791	Strand	+

Start 148  
 Name OJ000150\_02.0124.C70.o1.gs  
 Start 632  
 GI none  
 Exons 632..647, 751..979

End 1183  
 Method GENSCAN  
 End 979  
 Score .75

Seq. No. 28048  
 Gene No. 57791  
 Start 148  
 Name OJ000150\_02.0124.C70.o3.tm  
 Start 753  
 GI none  
 Exons 753..977, 776..949

Seq. ID OJ000150\_02.0124.C70  
 Strand +  
 End 1183  
 Method TBLASTX:Maize  
 End 977  
 Score 176

Seq. No. 28049  
 Gene No. 57792  
 Start 23  
 Name OJ000150\_02.0124.C72.o1.gs  
 Start 23  
 GI none  
 Exons 23..170

Seq. ID OJ000150\_02.0124.C72  
 Strand -  
 End 170  
 Method GENSCAN  
 End 170  
 Score .7

Seq. No. 28050  
 Gene No. 57793  
 Start 1  
 Name OJ000150\_02.0124.C73.o1.np  
 Start 1  
 GI 2827715  
 Exons 1..663

Seq. ID OJ000150\_02.0124.C73  
 Strand +  
 End 663  
 Method AAT/NAP  
 End 663  
 Score 825

GI Descrip. (AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]

Seq. No. 28050  
 Gene No. 57793  
 Start 1  
 Name OJ000150\_02.0124.C73.o1.tm  
 Start 2  
 GI none  
 Exons 2..283, 13..594, 14..595

Seq. ID OJ000150\_02.0124.C73  
 Strand +  
 End 663  
 Method TBLASTX:Maize  
 End 595  
 Score 210

Seq. No. 28050  
 Gene No. 57793  
 Start 1  
 Name OJ000150\_02.0124.C73.o2.ts  
 Start 2  
 GI none  
 Exons 2..166, 2..163, 26..178

Seq. ID OJ000150\_02.0124.C73  
 Strand +  
 End 663  
 Method TBLASTX:Soybean  
 End 178  
 Score 184

Seq. No. 28050  
 Gene No. 57793  
 Start 1  
 Name OJ000150\_02.0124.C73.o1.tw  
 Start 14  
 GI none  
 Exons 14..340, 89..355

Seq. ID OJ000150\_02.0124.C73  
 Strand +  
 End 663  
 Method TBLASTX:Wheat  
 End 355  
 Score 180

Seq. No. 28050

Seq. ID OJ000150\_02.0124.C73

Gene No.	57793	Strand	+
Start	1	End	663
Name	OJ000150_02.0124.C73.o1.tc	Method	TBLASTX:Cress
Start	80	End	586
GI	none	Score	136
Exons	80..283, 152..445, 160..444, 443..586, 487..585		
Seq. No.	28050	Seq. ID	OJ000150_02.0124.C73
Gene No.	57793	Strand	+
Start	1	End	663
Name	OJ000150_02.0124.C73.o1.ts	Method	TBLASTX:Soybean
Start	179	End	663
GI	none	Score	373
Exons	179..451, 181..450, 299..472, 364..459, 485..661, 499..663		
Seq. No.	28050	Seq. ID	OJ000150_02.0124.C73
Gene No.	57793	Strand	+
Start	1	End	663
Name	OJ000150_02.0124.C73.o1.gp	Method	AAT/GAP
Start	191	End	663
GI	uC-osf1M202068e05b1	Score	934
Exons	191..663		
GI Descrip.	'2827715/emb CAA16688  5.0e-64 (AL021684) receptor protein kinase - like protein [Arabidopsis thaliana]'		
Seq. No.	28051	Seq. ID	OJ000150_02.0124.C74
Gene No.	57794	Strand	-
Start	1	End	75
Name	OJ000150_02.0124.C74.o1.np	Method	AAT/NAP
Start	1	End	75
GI	1076669	Score	77
Exons	1..75		
GI Descrip.	NADH dehydrogenase (EC 1.6.99.3) - potato gi 668987 emb CAA59063  (X84320) NADH dehydrogenase [Solanum tuberosum]		
Seq. No.	28051	Seq. ID	OJ000150_02.0124.C74
Gene No.	57795	Strand	-
Start	1	End	75
Name	OJ000150_02.0124.C74.o1.gp	Method	AAT/GAP
Start	1	End	75
GI	21272_1.R1084	Score	109
Exons	1..75		
GI Descrip.	'1076670/pir  S52386 1.0e-50 NADH dehydrogenase (EC 1.6.99.3) - potato >gi_668985_emb_CAA59062_ (X84319) NADH dehydrogenase [Solanum tuberosum]'		
Seq. No.	28052	Seq. ID	OJ000150_02.0124.C76
Gene No.	57796	Strand	-
Start	66	End	160
Name	OJ000150_02.0124.C76.o1.gs	Method	GENSCAN
Start	66	End	160
GI	none	Score	.71
Exons	66..160		
Seq. No.	28053	Seq. ID	OJ000150_02.0124.C77
Gene No.	57797	Strand	-



Start 512  
 Name OJ000150\_02.0124.C77.o1.gs  
 Start 512  
 GI none  
 Exons 512..718

End 718  
 Method GENSCAN  
 End 718  
 Score .81

Seq. No. 28054  
 Gene No. 57798  
 Start 331  
 Name OJ000150\_02.0124.C78.o1.gs  
 Start 331  
 GI none  
 Exons 331..377, 410..563

Seq. ID OJ000150\_02.0124.C78  
 Strand -  
 End 563  
 Method GENSCAN  
 End 563  
 Score .55

Seq. No. 28055  
 Gene No. 57799  
 Start 1  
 Name OJ000150\_02.0124.C79.o1.gp  
 Start 1  
 GI none  
 Exons 1..353

Seq. ID OJ000150\_02.0124.C79  
 Strand +  
 End 2006  
 Method AAT/GAP  
 End 353  
 Score 576

Seq. No. 28055  
 Gene No. 57799  
 Start 1  
 Name OJ000150\_02.0124.C79.o1.gs  
 Start 73  
 GI none  
 Exons 73..268, 546..617, 1911..2006

Seq. ID OJ000150\_02.0124.C79  
 Strand +  
 End 2006  
 Method GENSCAN  
 End 2006  
 Score .68

Seq. No. 28055  
 Gene No. 57799  
 Start 1  
 Name OJ000150\_02.0124.C79.o2.gp  
 Start 232  
 GI none  
 Exons 232..1299

Seq. ID OJ000150\_02.0124.C79  
 Strand +  
 End 2006  
 Method AAT/GAP  
 End 1299  
 Score 2093

Seq. No. 28055  
 Gene No. 57800  
 Start 1981  
 Name OJ000150\_02.0124.C79.o3.gp  
 Start 1981  
 GI none  
 Exons 1981..2272

Seq. ID OJ000150\_02.0124.C79  
 Strand -  
 End 2272  
 Method AAT/GAP  
 End 2272  
 Score 584

Seq. No. 28056  
 Gene No. 57801  
 Start 652  
 Name OJ000150\_02.0124.C80.o1.gs  
 Start 652  
 GI none  
 Exons 652..812, 962..1209

Seq. ID OJ000150\_02.0124.C80  
 Strand -  
 End 1209  
 Method GENSCAN  
 End 1209  
 Score .89

Seq. No. 28057  
 Gene No. 57802  
 Start 87

Seq. ID OJ000150\_02.0124.C81  
 Strand +  
 End 712

Name OJ000150\_02.0124.C81.ol.np Method AAT/NAP  
 Start 87 End 712  
 GI 6561965 Score 128  
 Exons 87..208, 320..423, 682..712  
 GI Descrip. (AL132964) kinesin-like protein [Arabidopsis thaliana]

Seq. No. 28057 Seq. ID OJ000150\_02.0124.C81  
 Gene No. 57802 Strand +  
 Start 87 End 712  
 Name OJ000150\_02.0124.C81.ol.gs Method GENSCAN  
 Start 131 End 436  
 GI none Score .98  
 Exons 131..208, 320..436

Seq. No. 28058 Seq. ID OJ000150\_02.0124.C82  
 Gene No. 57803 Strand -  
 Start 161 End 349  
 Name OJ000150\_02.0124.C82.ol.gs Method GENSCAN  
 Start 161 End 349  
 GI none Score .64  
 Exons 161..349

Seq. No. 28059 Seq. ID OJ000150\_02.0124.C84  
 Gene No. 57804 Strand +  
 Start 58 End 117  
 Name OJ000150\_02.0124.C84.ol.gs Method GENSCAN  
 Start 58 End 117  
 GI none Score .52  
 Exons 58..117

Seq. No. 28060 Seq. ID OJ000150\_02.0124.C85  
 Gene No. 57805 Strand +  
 Start 626 End 896  
 Name OJ000150\_02.0124.C85.ol.gp Method AAT/GAP  
 Start 626 End 896  
 GI 37356\_1.R1084 Score 478  
 Exons 626..896  
 GI Descrip. '3929358/sp|O24143|NUIM\_TOBAC 1.0e-13 NADH-UBIQUINONE  
 OXIDOREDUCTASE 23 KD SUBUNIT PRECURSOR (COMPLEX I-23KD)  
 (CI-23KD) >gi\_1666177\_emb\_CAA70326\_(Y09109) NADH dehydrogenase  
 [Nicotiana tabacum]'

Seq. No. 28061 Seq. ID OJ000150\_02.0124.C87  
 Gene No. 57806 Strand +  
 Start 482 End 3321  
 Name OJ000150\_02.0124.C87.ol.gs Method GENSCAN  
 Start 482 End 3321  
 GI none Score .73  
 Exons 482..616, 983..1159, 2436..2502, 2767..3055, 3285..3321

Seq. No. 28062 Seq. ID OJ000150\_02.0124.C88  
 Gene No. 57807 Strand -  
 Start 538 End 665  
 Name OJ000150\_02.0124.C88.ol.gs Method GENSCAN  
 Start 538 End 665  
 GI none Score .79  
 Exons 538..665

Seq. No.	28063	Seq. ID	OJ000150_02.0124.C89
Gene No.	57808	Strand	+
Start	1	End	62
Name	OJ000150_02.0124.C89.o1.gp	Method	AAT/GAP
Start	1	End	62
GI	3768434	Score	85
Exons	1..62		
GI Descrip.	3402817/emb CAA07704  2.0e-35 (AJ007829) lacZ' [Cloning vector pGreen]		

Seq. No.	28063	Seq. ID	OJ000150_02.0124.C89
Gene No.	57809	Strand	-
Start	2218	End	2347
Name	OJ000150_02.0124.C89.o2.gs	Method	GENSCAN
Start	2218	End	2347
GI	none	Score	.95
Exons	2218..2347		

Seq. No.	28064	Seq. ID	OJ000150_02.0124.C90
Gene No.	57810	Strand	-
Start	652	End	2266
Name	OJ000150_02.0124.C90.o1.gp	Method	AAT/GAP
Start	369	End	2266
GI	2508.1.R1084	Score	1183
Exons	369..686, 1747..1789, 1872..1978, 2091..2266		
GI Descrip.	'3402817/emb CAA07704  2.0e-35 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	28064	Seq. ID	OJ000150_02.0124.C90
Gene No.	57810	Strand	-
Start	652	End	2266
Name	OJ000150_02.0124.C90.o1.tm	Method	TBLASTX:Maize
Start	489	End	2204
GI	none	Score	66
Exons	489..548, 490..552, 496..576, 555..614, 655..696, 656..706, 1745..1789, 1746..1790, 1747..1791, 1747..1791, 1748..1807, 1872..1982, 1873..1977, 1917..1979, 2135..2203, 2154..2204		

Seq. No.	28064	Seq. ID	OJ000150_02.0124.C90
Gene No.	57810	Strand	-
Start	652	End	2266
Name	OJ000150_02.0124.C90.o1.np	Method	AAT/NAP
Start	646	End	2202
GI	4490728	Score	227
Exons	646..686, 1747..1789, 1872..1978, 2091..2202		
GI Descrip.	(AL035709) putative protein [Arabidopsis thaliana]		

Seq. No.	28064	Seq. ID	OJ000150_02.0124.C90
Gene No.	57810	Strand	-
Start	652	End	2266
Name	OJ000150_02.0124.C90.o1.gs	Method	GENSCAN
Start	652	End	2202
GI	none	Score	.47
Exons	652..686, 1747..1789, 1872..1978, 2091..2202		

Seq. No.	28064	Seq. ID	OJ000150_02.0124.C90
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Gene No.	57810	Strand	-
Start	652	End	2266
Name	OJ000150_02.0124.C90.o1.tc	Method	TBLASTX:Cress
Start	1745	End	1982
GI	none	Score	50
Exons	1745..1789, 1746..1775, 1872..1982, 1873..1977		
Seq. No.	28064	Seq. ID	OJ000150_02.0124.C90
Gene No.	57810	Strand	-
Start	652	End	2266
Name	OJ000150_02.0124.C90.o1.tw	Method	TBLASTX:Wheat
Start	1745	End	2241
GI	none	Score	62
Exons	1745..1789, 1746..1784, 1747..1791, 1747..1791, 1871..1930, 1872..1982, 1873..1977, 1917..1979, 1961..1984, 1975..2046, 2117..2203, 2118..2204, 2215..2241		
Seq. No.	28065	Seq. ID	OJ000150_02.0124.C91
Gene No.	57811	Strand	+
Start	231	End	346
Name	OJ000150_02.0124.C91.o1.gs	Method	GENSCAN
Start	231	End	346
GI	none	Score	.42
Exons	231..346		
Seq. No.	28066	Seq. ID	OJ000150_02.0124.C92
Gene No.	57812	Strand	-
Start	14	End	550
Name	OJ000150_02.0124.C92.o1.gs	Method	GENSCAN
Start	14	End	550
GI	none	Score	.87
Exons	14..550		
Seq. No.	28067	Seq. ID	OJ000150_02.0124.C93
Gene No.	57813	Strand	+
Start	85	End	174
Name	OJ000150_02.0124.C93.o1.gs	Method	GENSCAN
Start	85	End	174
GI	none	Score	.94
Exons	85..174		
Seq. No.	28068	Seq. ID	OJ000150_02.0124.C94
Gene No.	57814	Strand	+
Start	1	End	574
Name	OJ000150_02.0124.C94.o1.np	Method	AAT/NAP
Start	1	End	574
GI	1184077	Score	168
Exons	1..180, 331..574		
GI Descrip.	(U42445) Cf-2.2 [Lycopersicon pimpinellifolium]		
Seq. No.	28069	Seq. ID	OJ000150_02.0124.C96
Gene No.	57815	Strand	+
Start	225	End	519
Name	OJ000150_02.0124.C96.o1.gp	Method	AAT/GAP
Start	225	End	519
GI	uC-osflcyp033a04b1	Score	520
Exons	225..519		

GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	28069	Seq. ID	OJ000150_02.0124.C96
Gene No.	57816	Strand	-
Start	158	End	519
Name	OJ000150_02.0124.C96.o1.np	Method	AAT/NAP
Start	158	End	519
GI	4680186	Score	244
Exons	158..358, 483..519		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	28070	Seq. ID	OJ000150_02.0124.C98
Gene No.	57817	Strand	-
Start	1	End	258
Name	OJ000150_02.0124.C98.o1.np	Method	AAT/NAP
Start	1	End	258
GI	5852180	Score	97
Exons	1..123, 224..258		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	28071	Seq. ID	OJ000150_02.0124.C99
Gene No.	57818	Strand	+
Start	284	End	528
Name	OJ000150_02.0124.C99.o1.gs	Method	GENSCAN
Start	284	End	528
GI	none	Score	.68
Exons	284..528		

Seq. No.	28072	Seq. ID	OJ000150_02.0124.C100
Gene No.	57819	Strand	+
Start	318	End	865
Name	OJ000150_02.0124.C100.o1.gs	Method	GENSCAN
Start	318	End	865
GI	none	Score	.61
Exons	318..865		

Seq. No.	28073	Seq. ID	OJ000150_02.0124.C102
Gene No.	57820	Strand	+
Start	653	End	808
Name	OJ000150_02.0124.C102.o1.gs	Method	GENSCAN
Start	653	End	808
GI	none	Score	.44
Exons	653..808		

Seq. No.	28074	Seq. ID	OJ000150_02.0124.C104
Gene No.	57821	Strand	-
Start	274	End	394
Name	OJ000150_02.0124.C104.o1.gs	Method	GENSCAN
Start	274	End	394
GI	none	Score	.82
Exons	274..394		

Seq. No.	28075	Seq. ID	OJ000150_02.0124.C105
Gene No.	57822	Strand	+
Start	1	End	710
Name	OJ000150_02.0124.C105.o1.np	Method	AAT/NAP

Start	1	End	269
GI	6466937	Score	56
Exons	1..269		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	28075	Seq. ID	OJ000150_02.0124.C105
Gene No.	57822	Strand	+
Start	1	End	710
Name	OJ000150_02.0124.C105.ol.gs	Method	GENSCAN
Start	149	End	710
GI	none	Score	.66
Exons	149..284, 314..394, 601..710		

Seq. No.	28076	Seq. ID	OJ000150_02.0124.C106
Gene No.	57823	Strand	-
Start	18	End	162
Name	OJ000150_02.0124.C106.ol.gs	Method	GENSCAN
Start	18	End	162
GI	none	Score	.92
Exons	18..162		

Seq. No.	28077	Seq. ID	OJ000150_02.0124.C107
Gene No.	57824	Strand	+
Start	405	End	659
Name	OJ000150_02.0124.C107.ol.gs	Method	GENSCAN
Start	405	End	659
GI	none	Score	.45
Exons	405..659		

Seq. No.	28078	Seq. ID	OJ000150_02.0124.C108
Gene No.	57825	Strand	+
Start	1	End	469
Name	OJ000150_02.0124.C108.ol.np	Method	AAT/NAP
Start	1	End	469
GI	5441880	Score	185
Exons	1..105, 350..469		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	28078	Seq. ID	OJ000150_02.0124.C108
Gene No.	57825	Strand	+
Start	1	End	469
Name	OJ000150_02.0124.C108.ol.gs	Method	GENSCAN
Start	63	End	462
GI	none	Score	.44
Exons	63..105, 198..462		

Seq. No.	28079	Seq. ID	OJ000150_02.0124.C109
Gene No.	57826	Strand	+
Start	92	End	250
Name	OJ000150_02.0124.C109.ol.gs	Method	GENSCAN
Start	92	End	250
GI	none	Score	1
Exons	92..250		

Seq. No.	28080	Seq. ID	OJ000150_02.0124.C110
Gene No.	57827	Strand	-
Start	1	End	346
Name	OJ000150_02.0124.C110.o1.np	Method	AAT/NAP
Start	1	End	346
GI	4586250	Score	55
Exons	1..346		
GI Descrip.	(AL049640) adenine DNA glycosylase like protein [Arabidopsis thaliana]		

Seq. No.	28080	Seq. ID	OJ000150_02.0124.C110
Gene No.	57827	Strand	-
Start	1	End	346
Name	OJ000150_02.0124.C110.o1.gs	Method	GENSCAN
Start	35	End	346
GI	none	Score	.97
Exons	35..129, 230..346		

Seq. No.	28081	Seq. ID	OJ000150_02.0124.C111
Gene No.	57828	Strand	-
Start	84	End	898
Name	OJ000150_02.0124.C111.o1.gs	Method	GENSCAN
Start	84	End	865
GI	none	Score	.78
Exons	84..209, 283..342, 464..865		

Seq. No.	28081	Seq. ID	OJ000150_02.0124.C111
Gene No.	57828	Strand	-
Start	84	End	898
Name	OJ000150_02.0124.C111.o1.np	Method	AAT/NAP
Start	260	End	898
GI	6691531	Score	206
Exons	260..342, 464..898		
GI Descrip.	(AB032925) hMYHbeta3 [Homo sapiens] gi 6691533 dbj BAA89342.1  (AB032926) hMYHbeta5 [Homo sapiens] gi 6691537 dbj BAA89344.1  (AB032928) hMYHgamma3 [Homo sapiens]		

Seq. No.	28082	Seq. ID	OJ000150_02.0124.C115
Gene No.	57829	Strand	+
Start	1	End	595
Name	OJ000150_02.0124.C115.o1.np	Method	AAT/NAP
Start	1	End	595
GI	6623973	Score	392
Exons	1..595		
GI Descrip.	(AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]		

Seq. No.	28082	Seq. ID	OJ000150_02.0124.C115
Gene No.	57829	Strand	+
Start	1	End	595
Name	OJ000150_02.0124.C115.o1.gs	Method	GENSCAN
Start	22	End	349
GI	none	Score	.52
Exons	22..349		

Seq. No.	28082	Seq. ID	OJ000150_02.0124.C115
Gene No.	57829	Strand	+

Start	1	End	595
Name	OJ000150_02.0124.C115.ol.tw	Method	TBLASTX:Wheat
Start	330	End	579
GI	none	Score	183
Exons	330..557, 331..579		

Seq. No.	28083	Seq. ID	OJ000150_02.0124.C116
Gene No.	57830	Strand	+
Start	18	End	287
Name	OJ000150_02.0124.C116.ol.gs	Method	GENSCAN
Start	18	End	287
GI	none	Score	.66
Exons	18..287		

Seq. No.	28084	Seq. ID	OJ000150_02.0124.C118
Gene No.	57831	Strand	+
Start	237	End	677
Name	OJ000150_02.0124.C118.ol.gs	Method	GENSCAN
Start	237	End	623
GI	none	Score	.69
Exons	237..344, 531..623		

Seq. No.	28084	Seq. ID	OJ000150_02.0124.C118
Gene No.	57831	Strand	+
Start	237	End	677
Name	OJ000150_02.0124.C118.ol.gp	Method	AAT/GAP
Start	295	End	677
GI	64285_1.R1084	Score	148
Exons	295..344, 629..677		

GI Descrip. '2695861/emb|CAA74644| 6.0e-59 (Y14272)  
3-deoxy-D-manno-2-octulosonate-8-phosphate synthase [Pisum  
sativum] >gi\_2695863\_emb\_CAA74645\_ (Y14273)  
3-deoxy-D-manno-2-octulosonate-8-phosphate synthase [Pisum  
sativum]'

Seq. No.	28084	Seq. ID	OJ000150_02.0124.C118
Gene No.	57831	Strand	+
Start	237	End	677
Name	OJ000150_02.0124.C118.ol.np	Method	AAT/NAP
Start	296	End	677
GI	4835760	Score	91
Exons	296..344, 629..677		

GI Descrip. (AC007202) Strong similarity to gb|Y14272  
3-deoxy-D-manno-2-octulosonate-8-phosphate synthase from Pisum  
sativum. ESTs gb|AA067485 and gb|AI100551 come from this gene.  
[Arabidopsis thaliana]

Seq. No.	28085	Seq. ID	OJ000150_02.0124.C119
Gene No.	57832	Strand	+
Start	54	End	177
Name	OJ000150_02.0124.C119.ol.gs	Method	GENSCAN
Start	54	End	177
GI	none	Score	.62
Exons	54..177		

Seq. No.	28086	Seq. ID	OJ000150_02.0124.C120
Gene No.	57833	Strand	+



Start	1	End	86
Name	OJ000150_02.0124.C120.o1.np	Method	AAT/NAP
Start	1	End	86
GI	6539558	Score	143
Exons	1..86		
GI Descrip.	(AP000836) Similar to putative polyprotein (AC006248) [Oryza sativa]		

Seq. No.	28087	Seq. ID	OJ000150_02.0124.C121
Gene No.	57834	Strand	+
Start	440	End	1314
Name	OJ000150_02.0124.C121.o1.tm	Method	TBLASTX:Maize
Start	439	End	1111
GI	none	Score	198
Exons	439..681, 453..695, 458..682, 678..950, 679..930, 684..950, 803..952, 974..1111, 1044..1097		

Seq. No.	28087	Seq. ID	OJ000150_02.0124.C121
Gene No.	57834	Strand	+
Start	440	End	1314
Name	OJ000150_02.0124.C121.o1.gs	Method	GENSCAN
Start	440	End	1150
GI	none	Score	.58
Exons	440..951, 1047..1150		

Seq. No.	28087	Seq. ID	OJ000150_02.0124.C121
Gene No.	57834	Strand	+
Start	440	End	1314
Name	OJ000150_02.0124.C121.o1.np	Method	AAT/NAP
Start	440	End	1314
GI	4586250	Score	424
Exons	440..954, 1047..1189, 1281..1314		
GI Descrip.	(AL049640) adenine DNA glycosylase like protein [Arabidopsis thaliana]		

Seq. No.	28088	Seq. ID	OJ000150_02.0124.C122
Gene No.	57835	Strand	+
Start	85	End	368
Name	OJ000150_02.0124.C122.o1.gs	Method	GENSCAN
Start	85	End	368
GI	none	Score	.9
Exons	85..368		

Seq. No.	28089	Seq. ID	OJ000150_02.0124.C124
Gene No.	57836	Strand	+
Start	1	End	736
Name	OJ000150_02.0124.C124.o1.np	Method	AAT/NAP
Start	1	End	736
GI	4582447	Score	243
Exons	1..310, 379..736		
GI Descrip.	(AC007071) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	28089	Seq. ID	OJ000150_02.0124.C124
Gene No.	57836	Strand	+
Start	1	End	736
Name	OJ000150_02.0124.C124.o1.tm	Method	TBLASTX:Maize

Start	85	End	731
GI	none	Score	212
Exons	85..297, 147..281, 387..479, 393..470, 472..636, 681..731		
Seq. No.	28089	Seq. ID	OJ000150_02.0124.C124
Gene No.	57836	Strand	+
Start	1	End	736
Name	OJ000150_02.0124.C124.ol.tw	Method	TBLASTX:Wheat
Start	118	End	297
GI	none	Score	170
Exons	118..294, 150..284, 175..297		
Seq. No.	28090	Seq. ID	OJ000150_02.0124.C125
Gene No.	57837	Strand	+
Start	33	End	710
Name	OJ000150_02.0124.C125.ol.gs	Method	GENSCAN
Start	33	End	710
GI	none	Score	.65
Exons	33..486, 610..710		
Seq. No.	28091	Seq. ID	OJ000150_02.0124.C126
Gene No.	57838	Strand	+
Start	1	End	602
Name	OJ000150_02.0124.C126.ol.np	Method	AAT/NAP
Start	1	End	602
GI	6498436	Score	97
Exons	1..444, 550..602		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	28092	Seq. ID	OJ000150_02.0124.C127
Gene No.	57839	Strand	+
Start	1	End	221
Name	OJ000150_02.0124.C127.ol.np	Method	AAT/NAP
Start	1	End	221
GI	6016874	Score	114
Exons	1..221		
GI Descrip.	(AP000570) ESTs C19143(E10020), D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		
Seq. No.	28092	Seq. ID	OJ000150_02.0124.C127
Gene No.	57840	Strand	-
Start	55	End	210
Name	OJ000150_02.0124.C127.ol.gs	Method	GENSCAN
Start	55	End	210
GI	none	Score	.59
Exons	55..210		
Seq. No.	28093	Seq. ID	OJ000150_02.0124.C134
Gene No.	57841	Strand	-
Start	566	End	648
Name	OJ000150_02.0124.C134.ol.gs	Method	GENSCAN
Start	566	End	648
GI	none	Score	.54
Exons	566..648		
Seq. No.	28094	Seq. ID	OJ000150_02.0124.C135

Gene No.	57842	Strand	+
Start	1	End	585
Name	OJ000150_02.0124.C135.ol.np	Method	AAT/NAP
Start	1	End	585
GI	4586250	Score	51
Exons	1..175, 552..585		
GI Descrip.	(AL049640) adenine DNA glycosylase like protein [Arabidopsis thaliana]		

Seq. No.	28094	Seq. ID	OJ000150_02.0124.C135
Gene No.	57842	Strand	+
Start	1	End	585
Name	OJ000150_02.0124.C135.ol.gs	Method	GENSCAN
Start	66	End	164
GI	none	Score	.62
Exons	66..164		

Seq. No.	28095	Seq. ID	OJ000150_02.0124.C137
Gene No.	57843	Strand	-
Start	296	End	615
Name	OJ000150_02.0124.C137.ol.gs	Method	GENSCAN
Start	296	End	615
GI	none	Score	.55
Exons	296..393, 399..615		

Seq. No.	28096	Seq. ID	OJ000150_02.0124.C140
Gene No.	57844	Strand	+
Start	263	End	382
Name	OJ000150_02.0124.C140.ol.gs	Method	GENSCAN
Start	263	End	382
GI	none	Score	.6
Exons	263..382		

Seq. No.	28097	Seq. ID	OJ000150_02.0124.C141
Gene No.	57845	Strand	-
Start	408	End	2055
Name	OJ000150_02.0124.C141.ol.np	Method	AAT/NAP
Start	408	End	2055
GI	4883612	Score	277
Exons	408..596, 689..832, 933..1288, 1424..1712, 1880..2055		
GI Descrip.	(AC006922) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	28097	Seq. ID	OJ000150_02.0124.C141
Gene No.	57845	Strand	-
Start	408	End	2055
Name	OJ000150_02.0124.C141.ol.gs	Method	GENSCAN
Start	417	End	2045
GI	none	Score	.79
Exons	417..596, 739..825, 914..1318, 1398..1593, 1807..2045		

Seq. No.	28097	Seq. ID	OJ000150_02.0124.C141
Gene No.	57845	Strand	-
Start	408	End	2055
Name	OJ000150_02.0124.C141.ol.gp	Method	AAT/GAP
Start	975	End	1470
GI	LIB3434-038-P1-K1-A5	Score	775
Exons	975..1318, 1398..1470		

GI Descrip. '4883612/gb|AAD31581.1|AC006922\_13 6.0e-11 (AC006922)  
hypothetical protein [Arabidopsis thaliana]'

Seq. No.	28097	Seq. ID	OJ000150_02.0124.C141
Gene No.	57845	Strand	-
Start	408	End	2055
Name	OJ000150_02.0124.C141.o1.tm	Method	TBLASTX:Maize
Start	1574	End	1971
GI	none	Score	52
Exons	1574..1606, 1577..1603, 1609..1677, 1632..1697, 1688..1717, 1689..1718, 1798..1956, 1800..1958, 1800..1970, 1912..1971		

Seq. No.	28097	Seq. ID	OJ000150_02.0124.C141
Gene No.	57845	Strand	-
Start	408	End	2055
Name	OJ000150_02.0124.C141.o1.ts	Method	TBLASTX:Soybean
Start	1803	End	2051
GI	none	Score	99
Exons	1803..2051, 1875..2045, 1921..2046		

Seq. No.	28098	Seq. ID	OJ000150_02.0124.C142
Gene No.	57846	Strand	+
Start	1	End	702
Name	OJ000150_02.0124.C142.o1.np	Method	AAT/NAP
Start	1	End	702
GI	6561965	Score	449
Exons	1..63, 157..303, 382..532, 684..702		
GI Descrip.	(AL132964) kinesin-like protein [Arabidopsis thaliana]		

Seq. No.	28098	Seq. ID	OJ000150_02.0124.C142
Gene No.	57846	Strand	+
Start	1	End	702
Name	OJ000150_02.0124.C142.o1.gs	Method	GENSCAN
Start	12	End	532
GI	none	Score	.77
Exons	12..63, 231..303, 382..532		

Seq. No.	28098	Seq. ID	OJ000150_02.0124.C142
Gene No.	57846	Strand	+
Start	1	End	702
Name	OJ000150_02.0124.C142.o1.ts	Method	TBLASTX:Soybean
Start	14	End	520
GI	none	Score	46
Exons	14..61, 155..274, 380..520		

Seq. No.	28099	Seq. ID	OJ000150_02.0124.C143
Gene No.	57847	Strand	-
Start	1	End	648
Name	OJ000150_02.0124.C143.o1.np	Method	AAT/NAP
Start	1	End	648
GI	126894	Score	282
Exons	1..21, 297..501, 577..648		
GI Descrip.	MALATE DEHYDROGENASE, GLYOXYSOMAL PRECURSOR gi 319832 pir  DEPUGW malate dehydrogenase (EC 1.1.1.37) precursor, glyoxysomal - watermelon gi 167284 (M33148) glyoxysomal malate dehydrogenase precursor (EC 1.1.1.37) [Citrullus vulgaris]		

Seq. No.	28099	Seq. ID	OJ000150_02.0124.C143
Gene No.	57847	Strand	-
Start	1	End	648
Name	OJ000150_02.0124.C143.ol.gs	Method	GENSCAN
Start	211	End	510
GI	none	Score	.53
Exons	211..510		

Seq. No.	28099	Seq. ID	OJ000150_02.0124.C143
Gene No.	57847	Strand	-
Start	1	End	648
Name	OJ000150_02.0124.C143.ol.tw	Method	TBLASTX:Wheat
Start	291	End	499
GI	none	Score	68
Exons	291..326, 298..498, 299..499		

Seq. No.	28099	Seq. ID	OJ000150_02.0124.C143
Gene No.	57847	Strand	-
Start	1	End	648
Name	OJ000150_02.0124.C143.ol.tc	Method	TBLASTX:Cress
Start	298	End	645
GI	none	Score	202
Exons	298..501, 299..502, 607..645		

Seq. No.	28099	Seq. ID	OJ000150_02.0124.C143
Gene No.	57847	Strand	-
Start	1	End	648
Name	OJ000150_02.0124.C143.ol.ts	Method	TBLASTX:Soybean
Start	298	End	648
GI	none	Score	250
Exons	298..498, 299..511, 607..648		

Seq. No.	28099	Seq. ID	OJ000150_02.0124.C143
Gene No.	57847	Strand	-
Start	1	End	648
Name	OJ000150_02.0124.C143.ol.tm	Method	TBLASTX:Maize
Start	298	End	498
GI	none	Score	228
Exons	298..498, 299..478		

Seq. No.	28099	Seq. ID	OJ000150_02.0124.C143
Gene No.	57847	Strand	-
Start	1	End	648
Name	OJ000150_02.0124.C143.ol.gp	Method	AAT/GAP
Start	299	End	648
GI	1278_1.R1084	Score	488
Exons	299..510, 592..648		
GI Descrip.	'3183079/sp Q42972 MDHG_ORYSA 1.0e-167 MALATE DEHYDROGENASE, GLYOXYSOMAL PRECURSOR >gi_1375075_dbj_BAA12870.1_ (D85763) glyoxysomal malate dehydrogenase [Oryza sativa]'		

Seq. No.	28100	Seq. ID	OJ000150_02.0124.C147
Gene No.	57848	Strand	+
Start	1	End	2113
Name	OJ000150_02.0124.C147.ol.np	Method	AAT/NAP
Start	1	End	1943

GI 6561965 Score 1012  
 Exons 1..113, 192..342, 494..556, 646..885, 1169..1261, 1339..1452, 1535..1943  
 GI Descrip. (AL132964) kinesin-like protein [Arabidopsis thaliana]

Seq. No. 28100 Seq. ID OJ000150\_02.0124.C147  
 Gene No. 57848 Strand +  
 Start 1 End 2113  
 Name OJ000150\_02.0124.C147.o1.gs Method GENSCAN  
 Start 130 End 2113  
 GI none Score .8  
 Exons 130..342, 494..556, 646..882, 1157..1261, 1339..1452, 1535..2113

Seq. No. 28100 Seq. ID OJ000150\_02.0124.C147  
 Gene No. 57848 Strand +  
 Start 1 End 2113  
 Name OJ000150\_02.0124.C147.o1.tm Method TBLASTX:Maize  
 Start 494 End 1233  
 GI none Score 95  
 Exons 494..559, 494..559, 495..560, 631..717, 644..715, 712..885, 712..885, 1132..1233, 1154..1231

Seq. No. 28100 Seq. ID OJ000150\_02.0124.C147  
 Gene No. 57848 Strand +  
 Start 1 End 2113  
 Name OJ000150\_02.0124.C147.o2.tm Method TBLASTX:Maize  
 Start 1860 End 2011  
 GI none Score 217  
 Exons 1860..2003, 1862..2011, 1864..2010

Seq. No. 28101 Seq. ID OJ000150\_02.0124.C150  
 Gene No. 57849 Strand -  
 Start 428 End 562  
 Name OJ000150\_02.0124.C150.o1.gs Method GENSCAN  
 Start 428 End 562  
 GI none Score .52  
 Exons 428..562

Seq. No. 28102 Seq. ID OJ000150\_02.0124.C151  
 Gene No. 57850 Strand +  
 Start 168 End 392  
 Name OJ000150\_02.0124.C151.o1.gs Method GENSCAN  
 Start 168 End 392  
 GI none Score .49  
 Exons 168..392

Seq. No. 28103 Seq. ID OJ000150\_02.0124.C152  
 Gene No. 57851 Strand +  
 Start 461 End 500  
 Name OJ000150\_02.0124.C152.o1.gs Method GENSCAN  
 Start 461 End 500  
 GI none Score .78  
 Exons 461..500

Seq. No. 28104 Seq. ID OJ000150\_08.0124.C1  
 Gene No. 57852 Strand +  
 Start 58 End 240

Name OJ000150\_08.0124.C1.o1.gs  
 Start 58  
 GI none  
 Exons 58..240

Method GENSCAN  
 End 240  
 Score .96

Seq. No. 28105  
 Gene No. 57853  
 Start 595  
 Name OJ000150\_08.0124.C4.o1.gs  
 Start 595  
 GI none  
 Exons 595..919

Seq. ID OJ000150\_08.0124.C4  
 Strand +  
 End 919  
 Method GENSCAN  
 End 919  
 Score .97

Seq. No. 28106  
 Gene No. 57854  
 Start 411  
 Name OJ000150\_08.0124.C8.o1.np  
 Start 411  
 GI 4680204  
 Exons 411..1817

Seq. ID OJ000150\_08.0124.C8  
 Strand +  
 End 1817  
 Method AAT/NAP  
 End 1817  
 Score 736

GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No. 28106  
 Gene No. 57854  
 Start 411  
 Name OJ000150\_08.0124.C8.o1.gs  
 Start 426  
 GI none  
 Exons 426..669, 712..1809

Seq. ID OJ000150\_08.0124.C8  
 Strand +  
 End 1817  
 Method GENSCAN  
 End 1809  
 Score .49

Seq. No. 28106  
 Gene No. 57854  
 Start 411  
 Name OJ000150\_08.0124.C8.o1.tw  
 Start 1054  
 GI none  
 Exons 1054..1194, 1054..1170, 1056..1292, 1056..1205, 1157..1324, 1287..1457, 1362..1457

Seq. ID OJ000150\_08.0124.C8  
 Strand +  
 End 1817  
 Method TBLASTX:Wheat  
 End 1457  
 Score 62

Seq. No. 28107  
 Gene No. 57855  
 Start 144  
 Name OJ000150\_08.0124.C9.o1.gs  
 Start 144  
 GI none  
 Exons 144..619, 729..902, 999..1109, 1194..1266

Seq. ID OJ000150\_08.0124.C9  
 Strand +  
 End 1266  
 Method GENSCAN  
 End 1266  
 Score .92

Seq. No. 28107  
 Gene No. 57855  
 Start 144  
 Name OJ000150\_08.0124.C9.o1.tw  
 Start 546  
 GI none  
 Exons 546..626, 715..897, 765..890, 997..1068

Seq. ID OJ000150\_08.0124.C9  
 Strand +  
 End 1266  
 Method TBLASTX:Wheat  
 End 1068  
 Score 63

Seq. No. 28108  
 Gene No. 57856

Seq. ID OJ000150\_08.0124.C10  
 Strand +

Start	50	End	223
Name	OJ000150_08.0124.C10.o1.gs	Method	GENSCAN
Start	50	End	223
GI	none	Score	.86
Exons	50..223		

Seq. No.	28108	Seq. ID	OJ000150_08.0124.C10
Gene No.	57857	Strand	+
Start	658	End	813
Name	OJ000150_08.0124.C10.o1.gp	Method	AAT/GAP
Start	658	End	813
GI	21474_1.R1084	Score	251
Exons	658..813		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	28109	Seq. ID	OJ000150_08.0124.C11
Gene No.	57858	Strand	+
Start	432	End	1071
Name	OJ000150_08.0124.C11.o1.gp	Method	AAT/GAP
Start	432	End	813
GI	4714984	Score	702
Exons	432..813		
GI Descrip.	5823572/emb CAB53754.1  2.0e-15 (AL049730) putative protein, [Arabidopsis thaliana]		

Seq. No.	28109	Seq. ID	OJ000150_08.0124.C11
Gene No.	57858	Strand	+
Start	432	End	1071
Name	OJ000150_08.0124.C11.o1.gs	Method	GENSCAN
Start	433	End	1071
GI	none	Score	.8
Exons	433..524, 994..1071		

Seq. No.	28110	Seq. ID	OJ000150_08.0124.C12
Gene No.	57859	Strand	-
Start	1063	End	1185
Name	OJ000150_08.0124.C12.o1.gs	Method	GENSCAN
Start	1063	End	1185
GI	none	Score	.59
Exons	1063..1185		

Seq. No.	28111	Seq. ID	OJ000150_08.0124.C13
Gene No.	57860	Strand	+
Start	373	End	803
Name	OJ000150_08.0124.C13.o1.gs	Method	GENSCAN
Start	373	End	803
GI	none	Score	.82
Exons	373..466, 472..803		

Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57861	Strand	+
Start	8611	End	8712
Name	OJ000150_08.0124.C14.o2.gp	Method	AAT/GAP
Start	8611	End	8712
GI	5816518	Score	135
Exons	8611..8712		



GI Descrip. 4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA,  
similar sequence to Pib gene

Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57862	Strand	+
Start	8725	End	8963
Name	OJ000150_08.0124.C14.o3.gp	Method	AAT/GAP
Start	8725	End	8963
GI	3761181	Score	375
Exons	8725..8963		

GI Descrip. 4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA,  
similar sequence to Pib gene

Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57863	Strand	-
Start	1950	End	3051
Name	OJ000150_08.0124.C14.o1.gs	Method	GENSCAN
Start	1950	End	3051
GI	none	Score	.78
Exons	1950..2264, 2407..3051		

Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57864	Strand	-
Start	3070	End	5973
Name	OJ000150_08.0124.C14.o1.np	Method	AAT/NAP
Start	3070	End	5973
GI	6016874	Score	2187
Exons	3070..3318, 3796..4136, 4254..4433, 4827..4986, 5377..5609, 5674..5811, 5895..5973		

GI Descrip. (AP000570) ESTs C19143(E10020), D25076(R3116) correspond to a  
region of the predicted gene.; Similar to putative AC9  
transposase. (P03010) [Oryza sativa]

Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57864	Strand	-
Start	3070	End	5973
Name	OJ000150_08.0124.C14.o2.gs	Method	GENSCAN
Start	3793	End	5973
GI	none	Score	.66
Exons	3793..4253, 4827..4986, 5377..5609, 5674..5811, 5895..5973		

Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57864	Strand	-
Start	3070	End	5973
Name	OJ000150_08.0124.C14.o1.gp	Method	AAT/GAP
Start	4776	End	5284
GI	uC-osflcyp110c07b1	Score	954
Exons	4776..5284		

GI Descrip. '4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp.  
indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2  
retrotransposon, complete sequences; and unknown genes'

Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57865	Strand	-
Start	6493	End	7283
Name	OJ000150_08.0124.C14.o3.tm	Method	TBLASTX:Maize
Start	4771	End	5085

GI	none	Score	106
Exons	4771..4998, 4772..4990, 5011..5085		
Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57865	Strand	-
Start	6493	End	7283
Name	OJ000150_08.0124.C14.o1.tm	Method	TBLASTX:Maize
Start	5179	End	5625
GI	none	Score	106
Exons	5179..5217, 5212..5274, 5275..5553, 5303..5530, 5539..5625		
Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57865	Strand	-
Start	6493	End	7283
Name	OJ000150_08.0124.C14.o2.np	Method	AAT/NAP
Start	6372	End	6541
GI	6907084	Score	127
Exons	6372..6541		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	28112	Seq. ID	OJ000150_08.0124.C14
Gene No.	57865	Strand	-
Start	6493	End	7283
Name	OJ000150_08.0124.C14.o3.gs	Method	GENSCAN
Start	6493	End	7283
GI	none	Score	.88
Exons	6493..6612, 6969..7283		
Seq. No.	28113	Seq. ID	OJ000150_08.0124.C15
Gene No.	57866	Strand	+
Start	1	End	1327
Name	OJ000150_08.0124.C15.o1.np	Method	AAT/NAP
Start	1	End	1327
GI	5091513	Score	1097
Exons	1..998, 1284..1327		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		
Seq. No.	28113	Seq. ID	OJ000150_08.0124.C15
Gene No.	57866	Strand	+
Start	1	End	1327
Name	OJ000150_08.0124.C15.o1.gs	Method	GENSCAN
Start	44	End	1077
GI	none	Score	.62
Exons	44..580, 692..1077		
Seq. No.	28114	Seq. ID	OJ000150_08.0124.C16
Gene No.	57867	Strand	+
Start	189	End	7593
Name	OJ000150_08.0124.C16.o1.gs	Method	GENSCAN
Start	189	End	3907
GI	none	Score	.55
Exons	189..563, 1337..1846, 1917..2232, 2299..2344, 2458..3010, 3041..3230, 3332..3464, 3792..3907		
Seq. No.	28114	Seq. ID	OJ000150_08.0124.C16
Gene No.	57867	Strand	+
Start	189	End	7593

Name	OJ000150_08.0124.C16.o1.np	Method	AAT/NAP
Start	235	End	3835
GI	5091513	Score	1414
Exons	235..641, 1392..2691, 3298..3484, 3637..3835		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	28114	Seq. ID	OJ000150_08.0124.C16
Gene No.	57867	Strand	+
Start	189	End	7593
Name	OJ000150_08.0124.C16.o2.np	Method	AAT/NAP
Start	3609	End	7593
GI	5852180	Score	63
Exons	3609..3630, 7157..7243, 7554..7593		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	28114	Seq. ID	OJ000150_08.0124.C16
Gene No.	57867	Strand	+
Start	189	End	7593
Name	OJ000150_08.0124.C16.o2.gp	Method	AAT/GAP
Start	5270	End	5506
GI	3761181	Score	381
Exons	5270..5506		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	28114	Seq. ID	OJ000150_08.0124.C16
Gene No.	57868	Strand	-
Start	5558	End	7352
Name	OJ000150_08.0124.C16.o2.gs	Method	GENSCAN
Start	5558	End	7352
GI	none	Score	.52
Exons	5558..5844, 5865..6024, 6204..6252, 7240..7352		

Seq. No.	28114	Seq. ID	OJ000150_08.0124.C16
Gene No.	57868	Strand	-
Start	5558	End	7352
Name	OJ000150_08.0124.C16.o3.gp	Method	AAT/GAP
Start	6610	End	6898
GI	61605_3.R1084	Score	440
Exons	6610..6898		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57869	Strand	+
Start	4547	End	8595
Name	OJ000150_08.0124.C17.o2.np	Method	AAT/NAP
Start	4547	End	8595
GI	5295955	Score	760
Exons	4547..4698, 5853..5969, 6512..6626, 7307..7429, 7517..7844, 7976..8595		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57870	Strand	+
Start	9997	End	11345

Name	OJ000150_08.0124.C17.o2.gp	Method	AAT/GAP
Start	9997	End	10520
GI	uC-osflM202048c12b1	Score	812
Exons	9997..10520		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57870	Strand	+
Start	9997	End	11345
Name	OJ000150_08.0124.C17.o2.gs	Method	GENSCAN
Start	10161	End	11345
GI	none	Score	.96
Exons	10161..10174, 10946..11345		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57871	Strand	+
Start	12389	End	19504
Name	OJ000150_08.0124.C17.o3.gs	Method	GENSCAN
Start	12389	End	19504
GI	none	Score	.53
Exons	12389..12474, 12959..13057, 13466..13597, 13809..13854, 13955..14092, 14500..14618, 15569..15757, 17143..17277, 17925..18008, 19246..19504		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57872	Strand	-
Start	321	End	4893
Name	OJ000150_08.0124.C17.o1.np	Method	AAT/NAP
Start	321	End	4893
GI	4680179	Score	6573
Exons	321..4893		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57873	Strand	-
Start	9237	End	9551
Name	OJ000150_08.0124.C17.o1.gp	Method	AAT/GAP
Start	9237	End	9551
GI	61605_3.R1084	Score	446
Exons	9237..9551		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57874	Strand	-
Start	9907	End	11668
Name	OJ000150_08.0124.C17.o3.np	Method	AAT/NAP
Start	9907	End	11668
GI	6063554	Score	425
Exons	9907..10080, 10704..10733, 11051..11282, 11400..11668		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57875	Strand	-

Start	17934	End	22171
Name	OJ000150_08.0124.C17.o4.np	Method	AAT/NAP
Start	17934	End	20292
GI	4585884	Score	257
Exons	17934..18374, 18476..18826, 20218..20292		
GI Descrip.	(AC005850) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57875	Strand	-
Start	17934	End	22171
Name	OJ000150_08.0124.C17.o4.gs	Method	GENSCAN
Start	19841	End	22171
GI	none	Score	.97
Exons	19841..20452, 21467..21778, 21917..22171		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o8.tm	Method	TBLASTX:Maize
Start	345	End	557
GI	none	Score	201
Exons	345..557		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o6.tw	Method	TBLASTX:Wheat
Start	366	End	699
GI	none	Score	79
Exons	366..698, 562..699		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o2.tm	Method	TBLASTX:Maize
Start	558	End	1145
GI	none	Score	131
Exons	558..827, 559..819, 888..986, 889..984, 918..986, 984..1145, 991..1137, 993..1139		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o1.tw	Method	TBLASTX:Wheat
Start	699	End	1325
GI	none	Score	349
Exons	699..1325, 700..1269		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o5.tm	Method	TBLASTX:Maize
Start	1194	End	1486
GI	none	Score	161
Exons	1194..1484, 1198..1383, 1203..1415, 1295..1486		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
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Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o2.ts	Method	TBLASTX:Soybean
Start	1284	End	1544
GI	none	Score	54
Exons	1284..1352, 1284..1544, 1438..1539		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o2.tc	Method	TBLASTX:Cress
Start	1308	End	1634
GI	none	Score	64
Exons	1308..1451, 1309..1386, 1452..1634		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o3.tw	Method	TBLASTX:Wheat
Start	1332	End	1814
GI	none	Score	219
Exons	1332..1814, 1333..1716, 1338..1793		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o2.tw	Method	TBLASTX:Wheat
Start	1815	End	2324
GI	none	Score	295
Exons	1815..2324, 1906..2292		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o3.tm	Method	TBLASTX:Maize
Start	1899	End	2252
GI	none	Score	134
Exons	1899..2252, 1914..2210, 2074..2250		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o6.tm	Method	TBLASTX:Maize
Start	2253	End	2606
GI	none	Score	117
Exons	2253..2606, 2335..2595		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o5.tw	Method	TBLASTX:Wheat
Start	2325	End	2627
GI	none	Score	201
Exons	2325..2627, 2326..2589		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-

Start	27025	End	29445
Name	OJ000150_08.0124.C17.o1.ts	Method	TBLASTX:Soybean
Start	2340	End	2735
GI	none	Score	126
Exons	2340..2699, 2341..2583, 2558..2692, 2622..2696, 2703..2735, 2703..2735		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o4.tm	Method	TBLASTX:Maize
Start	2622	End	3093
GI	none	Score	99
Exons	2622..3089, 2655..3002, 2848..3093		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o4.tw	Method	TBLASTX:Wheat
Start	2676	End	3162
GI	none	Score	218
Exons	2676..3158, 2718..3158, 2719..3162		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o8.tw	Method	TBLASTX:Wheat
Start	3333	End	3687
GI	none	Score	74
Exons	3333..3686, 3372..3503, 3592..3687		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o7.tm	Method	TBLASTX:Maize
Start	3420	End	3740
GI	none	Score	209
Exons	3420..3740		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o7.tw	Method	TBLASTX:Wheat
Start	4263	End	4620
GI	none	Score	235
Exons	4263..4340, 4330..4620		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o9.tm	Method	TBLASTX:Maize
Start	18112	End	18620
GI	none	Score	68
Exons	18112..18276, 18268..18393, 18474..18497, 18522..18620		

Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-

Start	27025	End	29445
Name	OJ000150_08.0124.C17.o4.ts	Method	TBLASTX:Soybean
Start	18241	End	18722
GI	none	Score	145
Exons	18241..18312, 18289..18381, 18477..18722		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o5.gs	Method	GENSCAN
Start	27025	End	29334
GI	none	Score	.92
Exons	27025..27124, 27662..29334		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o3.ts	Method	TBLASTX:Soybean
Start	27643	End	27903
GI	none	Score	144
Exons	27643..27903, 27656..27880		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o1.tc	Method	TBLASTX:Cress
Start	27658	End	28089
GI	none	Score	278
Exons	27658..28011, 27659..28009, 28001..28084, 28006..28089		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o5.np	Method	AAT/NAP
Start	27661	End	29445
GI	2979551	Score	1007
Exons	27661..28272, 28333..29179, 29258..29361, 29398..29445		
GI Descrip.	(AC003680) putative protein kinase [Arabidopsis thaliana]		
Seq. No.	28115	Seq. ID	OJ000150_08.0124.C17
Gene No.	57876	Strand	-
Start	27025	End	29445
Name	OJ000150_08.0124.C17.o1.tm	Method	TBLASTX:Maize
Start	27701	End	28424
GI	none	Score	465
Exons	27701..28162, 27708..28175, 27715..28161, 28246..28293, 28291..28323, 28314..28424		
Seq. No.	28116	Seq. ID	OJ000150_08.0124.C18
Gene No.	57877	Strand	+
Start	1557	End	2070
Name	OJ000150_08.0124.C18.o1.gs	Method	GENSCAN
Start	1557	End	2070
GI	none	Score	.6
Exons	1557..1565, 1705..2070		
Seq. No.	28116	Seq. ID	OJ000150_08.0124.C18



Gene No. 57878  
 Start 3449  
 Name OJ000150\_08.0124.C18.o2.gs  
 Start 3449  
 GI none  
 Exons 3449..3601

Strand -  
 End 3601  
 Method GENSCAN  
 End 3601  
 Score .53

Seq. No. 28117  
 Gene No. 57879  
 Start 562  
 Name OJ000150\_08.0124.C19.o1.gs  
 Start 562  
 GI none  
 Exons 562...583, 1038..1141

Seq. ID OJ000150\_08.0124.C19  
 Strand +  
 End 1141  
 Method GENSCAN  
 End 1141  
 Score .52

Seq. No. 28118  
 Gene No. 57880  
 Start 1  
 Name OJ000150\_08.0124.C20.o1.np  
 Start 1  
 GI 5902445  
 Exons 1..407  
 GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. ID OJ000150\_08.0124.C20  
 Strand -  
 End 745  
 Method AAT/NAP  
 End 407  
 Score 705

Seq. No. 28118  
 Gene No. 57880  
 Start 1  
 Name OJ000150\_08.0124.C20.o1.tm  
 Start 3  
 GI none  
 Exons 3..332, 4..291

Seq. ID OJ000150\_08.0124.C20  
 Strand -  
 End 745  
 Method TBLASTX:Maize  
 End 332  
 Score 195

Seq. No. 28118  
 Gene No. 57880  
 Start 1  
 Name OJ000150\_08.0124.C20.o1.tw  
 Start 6  
 GI none  
 Exons 6..461, 7..462

Seq. ID OJ000150\_08.0124.C20  
 Strand -  
 End 745  
 Method TBLASTX:Wheat  
 End 462  
 Score 271

Seq. No. 28118  
 Gene No. 57880  
 Start 1  
 Name OJ000150\_08.0124.C20.o1.ts  
 Start 57  
 GI none  
 Exons 57..191, 198..422

Seq. ID OJ000150\_08.0124.C20  
 Strand -  
 End 745  
 Method TBLASTX:Soybean  
 End 422  
 Score 138

Seq. No. 28118  
 Gene No. 57880  
 Start 1  
 Name OJ000150\_08.0124.C20.o1.gs  
 Start 117  
 GI none  
 Exons 117..390, 487..743

Seq. ID OJ000150\_08.0124.C20  
 Strand -  
 End 745  
 Method GENSCAN  
 End 743  
 Score .81

Seq. No. 28118

Seq. ID OJ000150\_08.0124.C20

Gene No.	57880	Strand	-
Start	1	End	745
Name	OJ000150_08.0124.C20.o2.np	Method	AAT/NAP
Start	474	End	745
GI	5902444	Score	431
Exons	474..745		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	28119	Seq. ID	OJ000150_08.0124.C21
Gene No.	57881	Strand	-
Start	119	End	774
Name	OJ000150_08.0124.C21.o1.gs	Method	GENSCAN
Start	119	End	774
GI	none	Score	.97
Exons	119..197, 287..411, 508..604, 687..774		

Seq. No.	28120	Seq. ID	OJ000150_08.0124.C25
Gene No.	57882	Strand	-
Start	193	End	247
Name	OJ000150_08.0124.C25.o1.gp	Method	AAT/GAP
Start	193	End	247
GI	3445004	Score	61
Exons	193..247		
GI Descrip.	5091529/dbj BAA78764.1  2.0e-16 (AB023482) ESTs C98382(C2985),D22444(C11129) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana APK1 gene for protein tyrosine-serine-threonine kinase.(D12522) [Oryza sativa]		

Seq. No.	28121	Seq. ID	OJ000150_08.0124.C26
Gene No.	57883	Strand	-
Start	117	End	228
Name	OJ000150_08.0124.C26.o1.gs	Method	GENSCAN
Start	117	End	228
GI	none	Score	.76
Exons	117..228		

Seq. No.	28122	Seq. ID	OJ000150_08.0124.C27
Gene No.	57884	Strand	+
Start	1	End	749
Name	OJ000150_08.0124.C27.o1.np	Method	AAT/NAP
Start	1	End	749
GI	6742729	Score	1213
Exons	1..749		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	28122	Seq. ID	OJ000150_08.0124.C27
Gene No.	57884	Strand	+
Start	1	End	749
Name	OJ000150_08.0124.C27.o1.gs	Method	GENSCAN
Start	101	End	598
GI	none	Score	.41
Exons	101..598		

Seq. No.	28122	Seq. ID	OJ000150_08.0124.C27
Gene No.	57884	Strand	+
Start	1	End	749
Name	OJ000150_08.0124.C27.o1.tw	Method	TBLASTX:Wheat

Start	211	End	660
GI	none	Score	87
Exons	211..261, 212..274, 280..462, 284..502, 530..658, 535..660, 536..658		

Seq. No.	28123	Seq. ID	OJ000150_08.0124.C30
Gene No.	57885	Strand	+
Start	334	End	826
Name	OJ000150_08.0124.C30.o1.gs	Method	GENSCAN
Start	334	End	826
GI	none	Score	.87
Exons	334..826		

Seq. No.	28123	Seq. ID	OJ000150_08.0124.C30
Gene No.	57886	Strand	-
Start	1466	End	3287
Name	OJ000150_08.0124.C30.o2.gs	Method	GENSCAN
Start	1466	End	3287
GI	none	Score	.69
Exons	1466..1693, 1998..2065, 3124..3287		

Seq. No.	28124	Seq. ID	OJ000150_08.0124.C31
Gene No.	57887	Strand	-
Start	1	End	566
Name	OJ000150_08.0124.C31.o1.np	Method	AAT/NAP
Start	1	End	566
GI	5823572	Score	197
Exons	1..47, 114..311, 366..566		
GI Descrip.	(AL049730) putative protein [Arabidopsis thaliana]		

Seq. No.	28124	Seq. ID	OJ000150_08.0124.C31
Gene No.	57887	Strand	-
Start	1	End	566
Name	OJ000150_08.0124.C31.o1.tm	Method	TBLASTX:Maize
Start	103	End	565
GI	none	Score	207
Exons	103..210, 112..312, 114..311, 388..450, 392..460, 392..448, 418..513, 440..565, 440..565		

Seq. No.	28124	Seq. ID	OJ000150_08.0124.C31
Gene No.	57887	Strand	-
Start	1	End	566
Name	OJ000150_08.0124.C31.o1.gs	Method	GENSCAN
Start	198	End	505
GI	none	Score	.94
Exons	198..311, 390..505		

Seq. No.	28125	Seq. ID	OJ000150_08.0124.C32
Gene No.	57888	Strand	+
Start	779	End	1397
Name	OJ000150_08.0124.C32.o1.np	Method	AAT/NAP
Start	779	End	1397
GI	423830	Score	64
Exons	779..974, 1195..1293, 1371..1397		
GI Descrip.	transactivator EBNA-2 - Herpesvirus papio HVP gi 306316 gb AAA79034.1  (AF200364) EBNA-2 [Herpesvirus papio]		

Seq. No.	28125	Seq. ID	OJ000150_08.0124.C32
Gene No.	57889	Strand	-
Start	1041	End	1118
Name	OJ000150_08.0124.C32.o1.gs	Method	GENSCAN
Start	1041	End	1118
GI	none	Score	.74
Exons	1041..1118		
Seq. No.	28125	Seq. ID	OJ000150_08.0124.C32
Gene No.	57890	Strand	-
Start	1270	End	1397
Name	OJ000150_08.0124.C32.o2.np	Method	AAT/NAP
Start	1270	End	1397
GI	423830	Score	81
Exons	1270..1397		
GI Descrip.	transactivator EBNA-2 - Herpesvirus papio HVP gi 306316 gb AAA79034.1  (AF200364) EBNA-2 [Herpesvirus papio]		
Seq. No.	28126	Seq. ID	OJ000150_08.0124.C34
Gene No.	57891	Strand	-
Start	1994	End	2646
Name	OJ000150_08.0124.C34.o2.gs	Method	GENSCAN
Start	1994	End	2646
GI	none	Score	.55
Exons	1994..2136, 2430..2646		
Seq. No.	28126	Seq. ID	OJ000150_08.0124.C34
Gene No.	57892	Strand	-
Start	3214	End	3537
Name	OJ000150_08.0124.C34.o3.gs	Method	GENSCAN
Start	3214	End	3537
GI	none	Score	.99
Exons	3214..3537		
Seq. No.	28127	Seq. ID	OJ000150_08.0124.C35
Gene No.	57893	Strand	-
Start	893	End	1497
Name	OJ000150_08.0124.C35.o1.np	Method	AAT/NAP
Start	893	End	1497
GI	6862956	Score	440
Exons	893..1497		
GI Descrip.	(AC019018) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	28127	Seq. ID	OJ000150_08.0124.C35
Gene No.	57893	Strand	-
Start	893	End	1497
Name	OJ000150_08.0124.C35.o1.tm	Method	TBLASTX:Maize
Start	1001	End	1358
GI	none	Score	419
Exons	1001..1357, 1002..1358		
Seq. No.	28127	Seq. ID	OJ000150_08.0124.C35
Gene No.	57893	Strand	-
Start	893	End	1497
Name	OJ000150_08.0124.C35.o1.tc	Method	TBLASTX:Cress
Start	1076	End	1324
GI	none	Score	85

Exons 1076..1324, 1119..1319

Seq. No.	28127	Seq. ID	OJ000150_08.0124.C35
Gene No.	57893	Strand	-
Start	893	End	1497
Name	OJ000150_08.0124.C35.ol.tw	Method	TBLASTX:Wheat
Start	1196	End	1495
GI	none	Score	200
Exons	1196..1420, 1197..1421, 1202..1426, 1204..1443, 1424..1495		

Seq. No.	28128	Seq. ID	OJ000150_08.0124.C36
Gene No.	57894	Strand	-
Start	1	End	1298
Name	OJ000150_08.0124.C36.ol.np	Method	AAT/NAP
Start	1	End	1298
GI	4585985	Score	644
Exons	1..291, 520..1298		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	28128	Seq. ID	OJ000150_08.0124.C36
Gene No.	57894	Strand	-
Start	1	End	1298
Name	OJ000150_08.0124.C36.ol.tm	Method	TBLASTX:Maize
Start	493	End	903
GI	none	Score	70
Exons	493..903, 527..610, 568..876, 638..895		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57895	Strand	+
Start	16	End	3459
Name	OJ000150_08.0124.C37.ol.gs	Method	GENSCAN
Start	16	End	3459
GI	none	Score	.85
Exons	16..281, 378..3459		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57895	Strand	+
Start	16	End	3459
Name	OJ000150_08.0124.C37.ol.np	Method	AAT/NAP
Start	361	End	3456
GI	5902445	Score	5337
Exons	361..3456		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57896	Strand	+
Start	8047	End	8202
Name	OJ000150_08.0124.C37.ol.gp	Method	AAT/GAP
Start	8047	End	8202
GI	uC-osflcyp177g01a1	Score	243
Exons	8047..8202		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57897	Strand	+
Start	9004	End	15102

Name	OJ000150_08.0124.C37.o3.gs	Method	GENSCAN
Start	9004	End	15102
GI	none	Score	.56
Exons	9004..11805, 11941..15102		

  

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57897	Strand	+
Start	9004	End	15102
Name	OJ000150_08.0124.C37.o3.np	Method	AAT/NAP
Start	9004	End	15066
GI	5922631	Score	6678
Exons	9004..9128, 9387..9634, 9869..10071, 10117..10688, 10731..10882, 11009..11932, 12539..15066		

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

  

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57898	Strand	-
Start	3776	End	6734
Name	OJ000150_08.0124.C37.o2.gs	Method	GENSCAN
Start	3776	End	6734
GI	none	Score	.78
Exons	3776..4224, 4297..4401, 4474..4663, 4739..4926, 5001..5631, 5850..6734		

  

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57898	Strand	-
Start	3776	End	6734
Name	OJ000150_08.0124.C37.o2.np	Method	AAT/NAP
Start	3779	End	6734
GI	6691716	Score	2397
Exons	3779..4224, 4297..4413, 4564..4663, 4739..4926, 5001..5160, 5273..5392, 5474..5648, 5846..6734		

GI Descrip. (AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]

  

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57899	Strand	-
Start	8569	End	8877
Name	OJ000150_08.0124.C37.o2.gp	Method	AAT/GAP
Start	8569	End	8877
GI	5816559	Score	479
Exons	8569..8877		

GI Descrip. 4680178/gb|AF111709.1|AF111709 1.0e-108 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes.

  

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57900	Strand	-
Start	15418	End	18359
Name	OJ000150_08.0124.C37.o4.gs	Method	GENSCAN

Start	15418	End	18359
GI	none	Score	.94
Exons	15418..15866, 15940..16044, 16116..16305, 16381..16568, 16688..17019, 17102..17277, 17475..18359		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57900	Strand	-
Start	15418	End	18359
Name	OJ000150_08.0124.C37.o4.np	Method	AAT/NAP
Start	15421	End	18359
GI	6691716	Score	2321
Exons	15421..15866, 15940..16052, 16202..16305, 16381..16575, 16752..17019, 17102..17277, 17475..18359		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57901	Strand	-
Start	19663	End	20124
Name	OJ000150_08.0124.C37.o3.gp	Method	AAT/GAP
Start	19663	End	20124
GI	uC-osflcyp177g01a1	Score	237
Exons	19663..19811, 20098..20124		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o1.tw	Method	TBLASTX:Wheat
Start	1	End	12069
GI	none	Score	80
Exons	1..84, 190..426, 261..422, 11272..11454, 11335..11448, 11493..11729, 11497..11727, 11776..12069, 11841..12065		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o3.ts	Method	TBLASTX:Soybean
Start	346	End	12354
GI	none	Score	138
Exons	346..570, 577..711, 11989..12213, 12220..12354		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o8.tw	Method	TBLASTX:Wheat
Start	427	End	12303
GI	none	Score	282
Exons	427..660, 447..659, 448..660, 12070..12303, 12090..12302, 12091..12303		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o2.tm	Method	TBLASTX:Maize

Start	436	End	12435
GI	none	Score	375
Exons	436..792, 477..782, 499..792, 12079..12435, 12120..12425		
Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o2.tw	Method	TBLASTX:Wheat
Start	661	End	12723
GI	none	Score	470
Exons	661..1080, 663..1079, 12304..12723, 12304..12519, 12306..12722		
Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o1.ts	Method	TBLASTX:Soybean
Start	955	End	12999
GI	none	Score	314
Exons	955..1356, 972..1115, 1152..1322, 12568..12999, 12615..12758, 12795..12965		
Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o3.tm	Method	TBLASTX:Maize
Start	1023	End	13110
GI	none	Score	275
Exons	1023..1277, 1024..1278, 1048..1284, 1299..1430, 1300..1443, 1441..1467, 12666..12920, 12667..12921, 12691..12921, 12942..13073, 12943..13086, 13084..13110		
Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o4.tw	Method	TBLASTX:Wheat
Start	1125	End	13197
GI	none	Score	417
Exons	1125..1553, 1126..1554, 12768..13040, 12769..13197, 12772..13167		
Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o2.ts	Method	TBLASTX:Soybean
Start	1582	End	13613
GI	none	Score	88
Exons	1582..1686, 1590..1685, 1722..1970, 1726..1968, 13225..13329, 13233..13613, 13369..13611		
Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o5.tw	Method	TBLASTX:Wheat
Start	1591	End	13656
GI	none	Score	413
Exons	1591..2013, 1599..2003, 13234..13656, 13242..13646		
Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37



Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o5.tm	Method	TBLASTX:Maize
Start	1644	End	13560
GI	none	Score	135
Exons	1644..1814, 1654..1815, 1819..1917, 1851..1916, 13287..13457, 13288..13458, 13462..13560, 13494..13559		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o10.tw	Method	TBLASTX:Wheat
Start	2029	End	13971
GI	none	Score	125
Exons	2029..2163, 2197..2328, 13672..13806, 13846..13971		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o1.tm	Method	TBLASTX:Maize
Start	2325	End	14331
GI	none	Score	446
Exons	2325..2636, 2326..2649, 2346..2669, 2640..2687, 2641..2688, 13969..14292, 13989..14303, 13989..14279, 14283..14330, 14284..14331		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o3.tw	Method	TBLASTX:Wheat
Start	2331	End	14361
GI	none	Score	420
Exons	2331..2642, 2332..2718, 13974..14285, 13975..14361, 14176..14361		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o6.tm	Method	TBLASTX:Maize
Start	2790	End	14706
GI	none	Score	95
Exons	2790..2897, 2791..2889, 2880..2954, 2884..2967, 2977..3063, 14433..14540, 14434..14532, 14523..14597, 14527..14610, 14620..14706		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o6.tw	Method	TBLASTX:Wheat
Start	2833	End	15090
GI	none	Score	273
Exons	2833..3111, 2853..2942, 2994..3095, 3166..3324, 3310..3447, 14476..14754, 14496..14585, 14637..14738, 14809..14967, 14953..15090, 14964..15086		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718

Name	OJ000150_08.0124.C37.o4.tm	Method	TBLASTX:Maize
Start	3175	End	15051
GI	none	Score	148
Exons	3175..3327, 3267..3326, 3306..3407, 3307..3408, 14818..14970, 14949..15050, 14950..15051		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o9.tw	Method	TBLASTX:Wheat
Start	6324	End	18239
GI	none	Score	216
Exons	6324..6614, 17949..18239		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o7.tw	Method	TBLASTX:Wheat
Start	10293	End	10695
GI	none	Score	294
Exons	10293..10562, 10294..10695		

Seq. No.	28129	Seq. ID	OJ000150_08.0124.C37
Gene No.	57902	Strand	-
Start	21201	End	22718
Name	OJ000150_08.0124.C37.o5.gs	Method	GENSCAN
Start	21201	End	22718
GI	none	Score	.41
Exons	21201..21433, 22021..22207, 22584..22718		

Seq. No.	28130	Seq. ID	OJ000150_08.0124.C38
Gene No.	57903	Strand	+
Start	4021	End	4736
Name	OJ000150_08.0124.C38.o1.np	Method	AAT/NAP
Start	4021	End	4736
GI	5902444	Score	1101
Exons	4021..4736		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	28131	Seq. ID	OJ000150_08.0124.C39
Gene No.	57904	Strand	+
Start	1	End	1132
Name	OJ000150_08.0124.C39.o1.np	Method	AAT/NAP
Start	1	End	1132
GI	5902444	Score	1929
Exons	1..1132		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	28131	Seq. ID	OJ000150_08.0124.C39
Gene No.	57904	Strand	+
Start	1	End	1132
Name	OJ000150_08.0124.C39.o1.gs	Method	GENSCAN
Start	134	End	1093
GI	none	Score	.5
Exons	134..1093		

Seq. No.	28131	Seq. ID	OJ000150_08.0124.C39
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Gene No.	57904	Strand	+
Start	1	End	1132
Name	OJ000150_08.0124.C39.ol.tw	Method	TBLASTX:Wheat
Start	305	End	707
GI	none	Score	294
Exons	305..574, 306..707		
Seq. No.	28132	Seq. ID	OJ000150_08.0124.C41
Gene No.	57905	Strand	-
Start	48	End	714
Name	OJ000150_08.0124.C41.ol.gs	Method	GENSCAN
Start	48	End	714
GI	none	Score	.91
Exons	48..417, 584..714		
Seq. No.	28133	Seq. ID	OJ000150_08.0124.C42
Gene No.	57906	Strand	-
Start	207	End	5628
Name	OJ000150_08.0124.C42.ol.gs	Method	GENSCAN
Start	207	End	5628
GI	none	Score	.64
Exons	207..373, 951..968, 2093..2254, 4074..4252, 4373..4450, 4482..4547, 5481..5628		
Seq. No.	28134	Seq. ID	OJ000150_08.0124.C44
Gene No.	57907	Strand	+
Start	1488	End	2154
Name	OJ000150_08.0124.C44.ol.gs	Method	GENSCAN
Start	1488	End	2154
GI	none	Score	.76
Exons	1488..1546, 2073..2154		
Seq. No.	28134	Seq. ID	OJ000150_08.0124.C44
Gene No.	57908	Strand	-
Start	1	End	5157
Name	OJ000150_08.0124.C44.ol.np	Method	AAT/NAP
Start	1	End	5157
GI	6705984	Score	248
Exons	1..59, 4157..4791, 5131..5157		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		
Seq. No.	28134	Seq. ID	OJ000150_08.0124.C44
Gene No.	57908	Strand	-
Start	1	End	5157
Name	OJ000150_08.0124.C44.o2.gs	Method	GENSCAN
Start	3463	End	4868
GI	none	Score	.87
Exons	3463..3818, 3941..4018, 4190..4325, 4679..4868		
Seq. No.	28134	Seq. ID	OJ000150_08.0124.C44
Gene No.	57908	Strand	-
Start	1	End	5157
Name	OJ000150_08.0124.C44.ol.tw	Method	TBLASTX:Wheat
Start	4254	End	4813
GI	none	Score	61
Exons	4254..4406, 4266..4466, 4390..4440, 4454..4813, 4509..4772		

Seq. No.	28135	Seq. ID	OJ000150_08.0124.C45
Gene No.	57909	Strand	-
Start	563	End	2423
Name	OJ000150_08.0124.C45.o1.np	Method	AAT/NAP
Start	545	End	2423
GI	5915833	Score	705
Exons	545..1176, 1671..2423		
GI Descrip.	CYTOCHROME P450 76C3 gi 2979550 gb AAC06159.1  (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	28135	Seq. ID	OJ000150_08.0124.C45
Gene No.	57909	Strand	-
Start	563	End	2423
Name	OJ000150_08.0124.C45.o1.gs	Method	GENSCAN
Start	563	End	2352
GI	none	Score	.62
Exons	563..750, 784..1165, 1645..2352		

Seq. No.	28135	Seq. ID	OJ000150_08.0124.C45
Gene No.	57909	Strand	-
Start	563	End	2423
Name	OJ000150_08.0124.C45.o1.tm	Method	TBLASTX:Maize
Start	575	End	1165
GI	none	Score	122
Exons	575..943, 660..974, 944..1165, 945..1151		

Seq. No.	28135	Seq. ID	OJ000150_08.0124.C45
Gene No.	57909	Strand	-
Start	563	End	2423
Name	OJ000150_08.0124.C45.o1.tc	Method	TBLASTX:Cress
Start	605	End	2421
GI	none	Score	128
Exons	605..646, 638..964, 690..938, 948..1166, 950..1165, 1855..1911, 2035..2184, 2194..2421, 2255..2407		

Seq. No.	28135	Seq. ID	OJ000150_08.0124.C45
Gene No.	57909	Strand	-
Start	563	End	2423
Name	OJ000150_08.0124.C45.o2.tw	Method	TBLASTX:Wheat
Start	605	End	841
GI	none	Score	87
Exons	605..841, 615..836		

Seq. No.	28135	Seq. ID	OJ000150_08.0124.C45
Gene No.	57909	Strand	-
Start	563	End	2423
Name	OJ000150_08.0124.C45.o1.ts	Method	TBLASTX:Soybean
Start	611	End	2398
GI	none	Score	89
Exons	611..940, 732..845, 944..1165, 945..1166, 2080..2397, 2261..2398		

Seq. No.	28135	Seq. ID	OJ000150_08.0124.C45
Gene No.	57909	Strand	-
Start	563	End	2423
Name	OJ000150_08.0124.C45.o1.tw	Method	TBLASTX:Wheat
Start	863	End	1166
GI	none	Score	52

Exons 863..940, 864..920, 950..1165, 954..1166

Seq. No.	28135	Seq. ID	OJ000150_08.0124.C45
Gene No.	57909	Strand	-
Start	563	End	2423
Name	OJ000150_08.0124.C45.o2.tm	Method	TBLASTX:Maize
Start	2053	End	2407
GI	none	Score	108
Exons	2053..2196, 2165..2407, 2254..2406		

Seq. No.	28136	Seq. ID	OJ000150_08.0124.C47
Gene No.	57910	Strand	-
Start	1	End	777
Name	OJ000150_08.0124.C47.o1.np	Method	AAT/NAP
Start	1	End	777
GI	5295955	Score	138
Exons	1..20, 499..622, 756..777		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	28137	Seq. ID	OJ000150_08.0124.C48
Gene No.	57911	Strand	+
Start	1	End	515
Name	OJ000150_08.0124.C48.o1.gp	Method	AAT/GAP
Start	1	End	515
GI	342_1.R1084	Score	880
Exons	1..515		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	28137	Seq. ID	OJ000150_08.0124.C48
Gene No.	57911	Strand	+
Start	1	End	515
Name	OJ000150_08.0124.C48.o1.np	Method	AAT/NAP
Start	1	End	515
GI	4680203	Score	506
Exons	1..515		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	28137	Seq. ID	OJ000150_08.0124.C48
Gene No.	57911	Strand	+
Start	1	End	515
Name	OJ000150_08.0124.C48.o1.tw	Method	TBLASTX:Wheat
Start	16	End	512
GI	none	Score	105
Exons	16..255, 36..287, 128..271, 282..326, 286..321, 329..424, 333..392, 371..511, 372..512		

Seq. No.	28137	Seq. ID	OJ000150_08.0124.C48
Gene No.	57911	Strand	+
Start	1	End	515
Name	OJ000150_08.0124.C48.o1.gs	Method	GENSCAN
Start	96	End	425
GI	none	Score	.59
Exons	96..425		

Seq. No.	28138	Seq. ID	OJ000150_08.0124.C50
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Gene No.	57912	Strand	-
Start	1	End	914
Name	OJ000150_08.0124.C50.o1.np	Method	AAT/NAP
Start	1	End	914
GI	4680203	Score	689
Exons	1..914		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	28138	Seq. ID	OJ000150_08.0124.C50
Gene No.	57912	Strand	-
Start	1	End	914
Name	OJ000150_08.0124.C50.o1.tw	Method	TBLASTX:Wheat
Start	291	End	606
GI	none	Score	179
Exons	291..605, 292..606		

Seq. No.	28138	Seq. ID	OJ000150_08.0124.C50
Gene No.	57912	Strand	-
Start	1	End	914
Name	OJ000150_08.0124.C50.o1.tc	Method	TBLASTX:Cress
Start	378	End	731
GI	none	Score	55
Exons	378..731, 474..647		

Seq. No.	28138	Seq. ID	OJ000150_08.0124.C50
Gene No.	57912	Strand	-
Start	1	End	914
Name	OJ000150_08.0124.C50.o1.tm	Method	TBLASTX:Maize
Start	399	End	606
GI	none	Score	125
Exons	399..602, 399..605, 415..606		

Seq. No.	28138	Seq. ID	OJ000150_08.0124.C50
Gene No.	57912	Strand	-
Start	1	End	914
Name	OJ000150_08.0124.C50.o1.ts	Method	TBLASTX:Soybean
Start	459	End	887
GI	none	Score	94
Exons	459..698, 460..699, 763..885, 768..887		

Seq. No.	28138	Seq. ID	OJ000150_08.0124.C50
Gene No.	57912	Strand	-
Start	1	End	914
Name	OJ000150_08.0124.C50.o2.tw	Method	TBLASTX:Wheat
Start	612	End	914
GI	none	Score	41
Exons	612..719, 678..713, 748..900, 768..914		

Seq. No.	28139	Seq. ID	OJ000150_08.0124.C51
Gene No.	57913	Strand	+
Start	1635	End	2532
Name	OJ000150_08.0124.C51.o1.np	Method	AAT/NAP
Start	1635	End	2532
GI	5852178	Score	362
Exons	1635..1911, 1942..2072, 2438..2532		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	28139	Seq. ID	OJ000150_08.0124.C51
Gene No.	57914	Strand	-
Start	1700	End	2047
Name	OJ000150_08.0124.C51.o1.gs	Method	GENSCAN
Start	1700	End	2047
GI	none	Score	.98
Exons	1700..2047		
Seq. No.	28140	Seq. ID	OJ000150_08.0124.C52
Gene No.	57915	Strand	+
Start	1240	End	1884
Name	OJ000150_08.0124.C52.o1.gs	Method	GENSCAN
Start	1240	End	1884
GI	none	Score	.96
Exons	1240..1884		
Seq. No.	28140	Seq. ID	OJ000150_08.0124.C52
Gene No.	57916	Strand	+
Start	4685	End	5381
Name	OJ000150_08.0124.C52.o2.gs	Method	GENSCAN
Start	4685	End	5381
GI	none	Score	.61
Exons	4685..4712, 4801..4910, 4915..4984, 5239..5381		
Seq. No.	28140	Seq. ID	OJ000150_08.0124.C52
Gene No.	57917	Strand	-
Start	1	End	8148
Name	OJ000150_08.0124.C52.o1.np	Method	AAT/NAP
Start	1	End	7227
GI	6630459	Score	74
Exons	1..113, 5389..5483, 6971..7227		
GI Descrip.	(AC007190) F23N19.12 [Arabidopsis thaliana]		
Seq. No.	28140	Seq. ID	OJ000150_08.0124.C52
Gene No.	57917	Strand	-
Start	1	End	8148
Name	OJ000150_08.0124.C52.o1.tm	Method	TBLASTX:Maize
Start	1371	End	1557
GI	none	Score	72
Exons	1371..1457, 1371..1457, 1378..1557, 1399..1536		
Seq. No.	28140	Seq. ID	OJ000150_08.0124.C52
Gene No.	57917	Strand	-
Start	1	End	8148
Name	OJ000150_08.0124.C52.o3.gs	Method	GENSCAN
Start	6309	End	8148
GI	none	Score	.44
Exons	6309..6433, 6884..6996, 7472..7585, 7970..8148		
Seq. No.	28141	Seq. ID	OJ000150_08.0124.C53
Gene No.	57918	Strand	+
Start	1	End	407
Name	OJ000150_08.0124.C53.o1.np	Method	AAT/NAP
Start	1	End	407
GI	5295955	Score	125
Exons	1..407		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555)		

[Oryza sativa]

Seq. No.	28142	Seq. ID	OJ000150_08.0124.C55
Gene No.	57919	Strand	-
Start	43	End	322
Name	OJ000150_08.0124.C55.o1.gs	Method	GENSCAN
Start	43	End	322
GI	none	Score	.47
Exons	43..196, 271..322		

Seq. No.	28143	Seq. ID	OJ000250_95.0214.C2
Gene No.	57920	Strand	+
Start	256	End	4209
Name	OJ000250_95.0214.C2.o1.np	Method	AAT/NAP
Start	256	End	2931
GI	6523547	Score	99
Exons	256..514, 787..876, 2904..2931		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	28143	Seq. ID	OJ000250_95.0214.C2
Gene No.	57920	Strand	+
Start	256	End	4209
Name	OJ000250_95.0214.C2.o2.np	Method	AAT/NAP
Start	1563	End	4209
GI	6539570	Score	110
Exons	1563..1764, 1924..1995, 4186..4209		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	28144	Seq. ID	OJ000250_95.0214.C3
Gene No.	57921	Strand	-
Start	92	End	1811
Name	OJ000250_95.0214.C3.o1.gs	Method	GENSCAN
Start	92	End	1811
GI	none	Score	.52
Exons	92..111, 1745..1811		

Seq. No.	28145	Seq. ID	OJ000250_95.0214.C8
Gene No.	57922	Strand	+
Start	1	End	2306
Name	OJ000250_95.0214.C8.o1.np	Method	AAT/NAP
Start	1	End	2306
GI	6063557	Score	281
Exons	1..171, 421..572, 2230..2306		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	28145	Seq. ID	OJ000250_95.0214.C8
Gene No.	57922	Strand	+
Start	1	End	2306
Name	OJ000250_95.0214.C8.o1.gs	Method	GENSCAN
Start	826	End	1543
GI	none	Score	.69
Exons	826..915, 1343..1543		

Seq. No.	28145	Seq. ID	OJ000250_95.0214.C8
Gene No.	57923	Strand	-
Start	1	End	2306



Name	OJ000250_95.0214.C8.o2.np	Method	AAT/NAP
Start	1	End	2306
GI	3386534	Score	142
Exons	1..62, 603..728, 859..1117, 2239..2306		
GI Descrip.	(AF078934) mariner transposase [Glycine max]		

Seq. No.	28146	Seq. ID	OJ000250_95.0214.C9
Gene No.	57924	Strand	+
Start	1078	End	2872
Name	OJ000250_95.0214.C9.o1.np	Method	AAT/NAP
Start	1078	End	2872
GI	6063554	Score	449
Exons	1078..1351, 1468..1690, 2029..2056, 2698..2872		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	28146	Seq. ID	OJ000250_95.0214.C9
Gene No.	57924	Strand	+
Start	1078	End	2872
Name	OJ000250_95.0214.C9.o1.gp	Method	AAT/GAP
Start	1347	End	1690
GI	101153_1.R1084	Score	530
Exons	1347..1690		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	28146	Seq. ID	OJ000250_95.0214.C9
Gene No.	57925	Strand	-
Start	1397	End	11631
Name	OJ000250_95.0214.C9.o1.gs	Method	GENSCAN
Start	1397	End	11631
GI	none	Score	.54
Exons	1397..1843, 1951..2124, 2603..2686, 3582..3664, 5719..5881, 5993..6082, 6521..6712, 6927..7230, 7597..7732, 7837..8040, 11568..11631		

Seq. No.	28146	Seq. ID	OJ000250_95.0214.C9
Gene No.	57925	Strand	-
Start	1397	End	11631
Name	OJ000250_95.0214.C9.o2.gp	Method	AAT/GAP
Start	2264	End	2782
GI	uC-osflM202048c12b1	Score	713
Exons	2264..2782		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	28146	Seq. ID	OJ000250_95.0214.C9
Gene No.	57925	Strand	-
Start	1397	End	11631
Name	OJ000250_95.0214.C9.o3.gp	Method	AAT/GAP
Start	3236	End	3538
GI	61605_3.R1084	Score	455
Exons	3236..3538		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	28146	Seq. ID	OJ000250_95.0214.C9
Gene No.	57925	Strand	-
Start	1397	End	11631
Name	OJ000250_95.0214.C9.o2.np	Method	AAT/NAP
Start	11397	End	11613
GI	5295951	Score	203
Exons	11397..11613		
GI Descrip.	(AB026295) Similar to Herpesvirus papio BRRF2 homolog gene, partial cds.(U23857) [Oryza sativa]		
Seq. No.	28147	Seq. ID	OJ000250_95.0214.C10
Gene No.	57926	Strand	-
Start	81	End	1086
Name	OJ000250_95.0214.C10.o1.gs	Method	GENSCAN
Start	81	End	1086
GI	none	Score	.81
Exons	81..168, 506..566, 914..1086		
Seq. No.	28147	Seq. ID	OJ000250_95.0214.C10
Gene No.	57927	Strand	-
Start	1805	End	2975
Name	OJ000250_95.0214.C10.o2.tm	Method	TBLASTX:Maize
Start	1805	End	2146
GI	none	Score	55
Exons	1805..1975, 1884..1937, 1961..2146, 1962..2129		
Seq. No.	28147	Seq. ID	OJ000250_95.0214.C10
Gene No.	57927	Strand	-
Start	1805	End	2975
Name	OJ000250_95.0214.C10.o1.tw	Method	TBLASTX:Wheat
Start	1817	End	2372
GI	none	Score	56
Exons	1817..1909, 2006..2371, 2066..2221, 2241..2372		
Seq. No.	28147	Seq. ID	OJ000250_95.0214.C10
Gene No.	57927	Strand	-
Start	1805	End	2975
Name	OJ000250_95.0214.C10.o1.ts	Method	TBLASTX:Soybean
Start	1994	End	2378
GI	none	Score	36
Exons	1994..2176, 2104..2172, 2165..2377, 2238..2378		
Seq. No.	28147	Seq. ID	OJ000250_95.0214.C10
Gene No.	57927	Strand	-
Start	1805	End	2975
Name	OJ000250_95.0214.C10.o1.tm	Method	TBLASTX:Maize
Start	2159	End	2975
GI	none	Score	116
Exons	2159..2632, 2401..2682, 2463..2600, 2464..2601, 2665..2802, 2672..2746, 2698..2832, 2811..2975, 2825..2974		
Seq. No.	28147	Seq. ID	OJ000250_95.0214.C10
Gene No.	57927	Strand	-
Start	1805	End	2975
Name	OJ000250_95.0214.C10.o2.tw	Method	TBLASTX:Wheat
Start	2707	End	2974
GI	none	Score	135

Exons 2707..2847, 2777..2974, 2804..2974

Seq. No.	28148	Seq. ID	OJ000250_95.0214.C11
Gene No.	57928	Strand	-
Start	247	End	404
Name	OJ000250_95.0214.C11.ol.tm	Method	TBLASTX:Maize
Start	239	End	404
GI	none	Score	114
Exons	239..382, 246..398, 249..404		

Seq. No.	28148	Seq. ID	OJ000250_95.0214.C11
Gene No.	57928	Strand	-
Start	247	End	404
Name	OJ000250_95.0214.C11.ol.ts	Method	TBLASTX:Soybean
Start	239	End	404
GI	none	Score	114
Exons	239..382, 239..376, 246..398, 249..404		

Seq. No.	28148	Seq. ID	OJ000250_95.0214.C11
Gene No.	57928	Strand	-
Start	247	End	404
Name	OJ000250_95.0214.C11.ol.np	Method	AAT/NAP
Start	247	End	394
GI	3786005	Score	108
Exons	247..394		
GI Descrip.	(AC005499) putative phospholipid cytidyltransferase [Arabidopsis thaliana]		

Seq. No.	28149	Seq. ID	OJ000250_95.0214.C12
Gene No.	57929	Strand	+
Start	210	End	573
Name	OJ000250_95.0214.C12.ol.gs	Method	GENSCAN
Start	210	End	573
GI	none	Score	.91
Exons	210..573		

Seq. No.	28149	Seq. ID	OJ000250_95.0214.C12
Gene No.	57930	Strand	-
Start	238	End	1236
Name	OJ000250_95.0214.C12.ol.np	Method	AAT/NAP
Start	238	End	1236
GI	2213623	Score	83
Exons	238..445, 1211..1236		
GI Descrip.	(AC000103) F21J9.15 [Arabidopsis thaliana]		

Seq. No.	28150	Seq. ID	OJ000250_95.0214.C14
Gene No.	57931	Strand	+
Start	585	End	2197
Name	OJ000250_95.0214.C14.ol.gs	Method	GENSCAN
Start	585	End	2197
GI	none	Score	.81
Exons	585..628, 2070..2197		

Seq. No.	28150	Seq. ID	OJ000250_95.0214.C14
Gene No.	57932	Strand	+
Start	3395	End	3847
Name	OJ000250_95.0214.C14.ol.np	Method	AAT/NAP

Start	3395	End	3847
GI	2213623	Score	101
Exons	3395..3464, 3605..3847		
GI Descrip.	(AC000103) F21J9.15 [Arabidopsis thaliana]		

Seq. No.	28151	Seq. ID	OJ000250_95.0214.C15
Gene No.	57933	Strand	+
Start	1	End	2518
Name	OJ000250_95.0214.C15.o1.np	Method	AAT/NAP
Start	1	End	2518
GI	2655098	Score	174
Exons	1..115, 2276..2518		
GI Descrip.	(AF023472) peptide transporter [Hordeum vulgare]		

Seq. No.	28151	Seq. ID	OJ000250_95.0214.C15
Gene No.	57933	Strand	+
Start	1	End	2518
Name	OJ000250_95.0214.C15.o1.gs	Method	GENSCAN
Start	1537	End	2458
GI	none	Score	.66
Exons	1537..1549, 2298..2458		

Seq. No.	28151	Seq. ID	OJ000250_95.0214.C15
Gene No.	57934	Strand	+
Start	3733	End	8654
Name	OJ000250_95.0214.C15.o1.ts	Method	TBLASTX:Soybean
Start	2275	End	2473
GI	none	Score	46
Exons	2275..2310, 2312..2473, 2314..2469		

Seq. No.	28151	Seq. ID	OJ000250_95.0214.C15
Gene No.	57934	Strand	+
Start	3733	End	8654
Name	OJ000250_95.0214.C15.o1.gp	Method	AAT/GAP
Start	3607	End	3857
GI	4880862	Score	493
Exons	3607..3857		

Seq. No.	28151	Seq. ID	OJ000250_95.0214.C15
Gene No.	57934	Strand	+
Start	3733	End	8654
Name	OJ000250_95.0214.C15.o2.np	Method	AAT/NAP
Start	3724	End	5367
GI	2586127	Score	481
Exons	3724..4394, 4524..4655, 5171..5367		
GI Descrip.	(U89510) b-keto acyl reductase [Hordeum vulgare]		

Seq. No.	28151	Seq. ID	OJ000250_95.0214.C15
Gene No.	57934	Strand	+
Start	3733	End	8654
Name	OJ000250_95.0214.C15.o2.gs	Method	GENSCAN
Start	3733	End	8654
GI	none	Score	.7
Exons	3733..4406, 4524..4593, 5095..5332, 5853..5922, 6377..6436, 6553..6591, 7001..7081, 7862..7950, 8103..8654		

Seq. No.	28151	Seq. ID	OJ000250_95.0214.C15
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Gene No.	57934	Strand	+
Start	3733	End	8654
Name	OJ000250_95.0214.C15.o1.tm	Method	TBLASTX:Maize
Start	3765	End	4224
GI	none	Score	78
Exons	3765..3857, 3784..3864, 3817..3870, 3898..4224, 3901..4092, 3909..4097		

Seq. No.	28151	Seq. ID	OJ000250_95.0214.C15
Gene No.	57934	Strand	+
Start	3733	End	8654
Name	OJ000250_95.0214.C15.o1.tc	Method	TBLASTX:Cress
Start	3895	End	4344
GI	none	Score	169
Exons	3895..4044, 3895..4044, 3909..4052, 4042..4344		

Seq. No.	28152	Seq. ID	OJ000250_95.0214.C16
Gene No.	57935	Strand	+
Start	1	End	1278
Name	OJ000250_95.0214.C16.o1.np	Method	AAT/NAP
Start	1	End	1278
GI	3600044	Score	479
Exons	1..33, 321..711, 739..1278		
GI Descrip.	(AF080119) contains similarity to proteases [Arabidopsis thaliana]		

Seq. No.	28152	Seq. ID	OJ000250_95.0214.C16
Gene No.	57935	Strand	+
Start	1	End	1278
Name	OJ000250_95.0214.C16.o1.gs	Method	GENSCAN
Start	111	End	1215
GI	none	Score	.52
Exons	111..170, 418..617, 1104..1215		

Seq. No.	28152	Seq. ID	OJ000250_95.0214.C16
Gene No.	57935	Strand	+
Start	1	End	1278
Name	OJ000250_95.0214.C16.o1.tm	Method	TBLASTX:Maize
Start	480	End	824
GI	none	Score	169
Exons	480..659, 491..658, 702..824, 713..781		

Seq. No.	28152	Seq. ID	OJ000250_95.0214.C16
Gene No.	57935	Strand	+
Start	1	End	1278
Name	OJ000250_95.0214.C16.o1.tw	Method	TBLASTX:Wheat
Start	486	End	932
GI	none	Score	82
Exons	486..620, 492..638, 682..729, 714..794, 716..769, 801..932, 801..932		

Seq. No.	28152	Seq. ID	OJ000250_95.0214.C16
Gene No.	57935	Strand	+
Start	1	End	1278
Name	OJ000250_95.0214.C16.o1.tc	Method	TBLASTX:Cress
Start	744	End	1028
GI	none	Score	191

Exons 744..938, 749..937, 942..1028

Seq. No.	28152	Seq. ID	OJ000250_95.0214.C16
Gene No.	57935	Strand	+
Start	1	End	1278
Name	OJ000250_95.0214.C16.o2.tm	Method	TBLASTX:Maize
Start	840	End	1157
GI	none	Score	161
Exons	840..1004, 845..994, 1017..1157		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57936	Strand	+
Start	1	End	2985
Name	OJ000250_95.0214.C17.o1.np	Method	AAT/NAP
Start	1	End	2985
GI	6056391	Score	1445
Exons	1..245, 316..2327, 2751..2985		
GI Descrip.	(AC009324) Similar to retrotransposon proteins [Arabidopsis thaliana]		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57936	Strand	+
Start	1	End	2985
Name	OJ000250_95.0214.C17.o1.gs	Method	GENSCAN
Start	253	End	2351
GI	none	Score	.62
Exons	253..345, 517..716, 769..1575, 1758..2351		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57937	Strand	+
Start	3680	End	5884
Name	OJ000250_95.0214.C17.o2.gs	Method	GENSCAN
Start	3680	End	5884
GI	none	Score	.46
Exons	3680..3723, 4034..4678, 5402..5474, 5624..5884		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57938	Strand	+
Start	9556	End	10785
Name	OJ000250_95.0214.C17.o3.gs	Method	GENSCAN
Start	9556	End	10227
GI	none	Score	.6
Exons	9556..10227		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57938	Strand	+
Start	9556	End	10785
Name	OJ000250_95.0214.C17.o2.np	Method	AAT/NAP
Start	9566	End	10785
GI	2586127	Score	467
Exons	9566..10223, 10313..10382, 10525..10785		
GI Descrip.	(U89510) b-keto acyl reductase [Hordeum vulgare]		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o5.tm	Method	TBLASTX:Maize

Start 2  
 GI none  
 Exons 2..220, 3..224, 36..224

End 224  
 Score 269

Seq. No. 28153  
 Gene No. 57939  
 Start 10497  
 Name OJ000250\_95.0214.C17.o3.tc  
 Start 3  
 GI none  
 Exons 3..254

Seq. ID OJ000250\_95.0214.C17  
 Strand -  
 End 10736  
 Method TBLASTX:Cress  
 End 254  
 Score 196

Seq. No. 28153  
 Gene No. 57939  
 Start 10497  
 Name OJ000250\_95.0214.C17.o3.tw  
 Start 3  
 GI none  
 Exons 3..242, 53..241

Seq. ID OJ000250\_95.0214.C17  
 Strand -  
 End 10736  
 Method TBLASTX:Wheat  
 End 242  
 Score 194

Seq. No. 28153  
 Gene No. 57939  
 Start 10497  
 Name OJ000250\_95.0214.C17.o2.tm  
 Start 718  
 GI none  
 Exons 718..801, 4161..4181, 4167..4250, 4281..4430, 4284..4388, 4362..4505, 4412..4489, 9616..9873, 9628..9873, 9880..10050, 9880..9999, 10014..10049

Seq. ID OJ000250\_95.0214.C17  
 Strand -  
 End 10736  
 Method TBLASTX:Maize  
 End 10050  
 Score 65

Seq. No. 28153  
 Gene No. 57939  
 Start 10497  
 Name OJ000250\_95.0214.C17.o6.tm  
 Start 816  
 GI none  
 Exons 816..1055, 817..1062

Seq. ID OJ000250\_95.0214.C17  
 Strand -  
 End 10736  
 Method TBLASTX:Maize  
 End 1062  
 Score 259

Seq. No. 28153  
 Gene No. 57939  
 Start 10497  
 Name OJ000250\_95.0214.C17.o2.ts  
 Start 817  
 GI 5509260  
 Exons 817..1266, 906..1043, 1095..1250  
 GI Descrip. -

Seq. ID OJ000250\_95.0214.C17  
 Strand -  
 End 10736  
 Method TBLASTX:Soybean  
 End 1266  
 Score 367

Seq. No. 28153  
 Gene No. 57939  
 Start 10497  
 Name OJ000250\_95.0214.C17.o2.tc  
 Start 876  
 GI none  
 Exons 876..1133, 880..1155

Seq. ID OJ000250\_95.0214.C17  
 Strand -  
 End 10736  
 Method TBLASTX:Cress  
 End 1155  
 Score 249

Seq. No. 28153  
 Gene No. 57939

Seq. ID OJ000250\_95.0214.C17  
 Strand -

Start	10497	End	10736
Name	OJ000250_95.0214.C17.o1.tw	Method	TBLASTX:Wheat
Start	937	End	1482
GI	none	Score	305
Exons	937..1281, 954..1034, 1095..1277, 1273..1482		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o1.tm	Method	TBLASTX:Maize
Start	1068	End	1515
GI	none	Score	76
Exons	1068..1145, 1068..1379, 1069..1515, 1425..1502		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o4.tc	Method	TBLASTX:Cress
Start	1330	End	1587
GI	none	Score	183
Exons	1330..1587, 1425..1574		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o2.tw	Method	TBLASTX:Wheat
Start	1492	End	1880
GI	none	Score	104
Exons	1492..1584, 1617..1757, 1624..1743, 1752..1880		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o3.tm	Method	TBLASTX:Maize
Start	1567	End	1949
GI	none	Score	199
Exons	1567..1743, 1569..1736, 1749..1949, 1754..1933		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o1.ts	Method	TBLASTX:Soybean
Start	1645	End	2330
GI	none	Score	80
Exons	1645..1743, 1752..2036, 1850..1960, 2064..2330, 2069..2167		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o4.tm	Method	TBLASTX:Maize
Start	1950	End	2243
GI	none	Score	306
Exons	1950..2243, 1950..2234, 2039..2242		

Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736



Name	OJ000250_95.0214.C17.o4.tw	Method	TBLASTX:Wheat
Start	2094	End	2356
GI	none	Score	180
Exons	2094..2282, 2106..2276, 2123..2356		
Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o1.tc	Method	TBLASTX:Cress
Start	4278	End	10200
GI	none	Score	169
Exons	4278..4427, 4398..4577, 9693..9773, 9697..9909, 9709..9912, 9928..10200		
Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o3.ts	Method	TBLASTX:Soybean
Start	4278	End	9912
GI	none	Score	178
Exons	4278..4427, 4283..4324, 4405..4449, 9690..9767, 9706..9912		
Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o4.ts	Method	TBLASTX:Soybean
Start	4458	End	10713
GI	none	Score	79
Exons	4458..4577, 4608..4685, 5399..5476, 5406..5489, 5684..5740, 5756..5863, 9970..10149, 10129..10221, 10314..10385, 10585..10626, 10663..10713		
Seq. No.	28153	Seq. ID	OJ000250_95.0214.C17
Gene No.	57939	Strand	-
Start	10497	End	10736
Name	OJ000250_95.0214.C17.o4.gs	Method	GENSCAN
Start	10497	End	10736
GI	none	Score	.58
Exons	10497..10595, 10600..10736		
Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57940	Strand	+
Start	681	End	5178
Name	OJ000250_95.0214.C18.o1.np	Method	AAT/NAP
Start	681	End	5178
GI	4680203	Score	1520
Exons	681..2235, 2305..2409, 2569..2793, 3070..3814, 5160..5178		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57940	Strand	+
Start	681	End	5178
Name	OJ000250_95.0214.C18.o1.gs	Method	GENSCAN
Start	967	End	1593
GI	none	Score	.6
Exons	967..1593		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57940	Strand	+
Start	681	End	5178
Name	OJ000250_95.0214.C18.o2.gs	Method	GENSCAN
Start	1873	End	4020
GI	none	Score	.6
Exons	1873..4020		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o2.tw	Method	TBLASTX:Wheat
Start	1120	End	1704
GI	none	Score	225
Exons	1120..1410, 1176..1430, 1459..1578, 1461..1565, 1549..1584, 1576..1704		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o1.ts	Method	TBLASTX:Soybean
Start	1132	End	1415
GI	none	Score	285
Exons	1132..1410, 1155..1415		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o2.tc	Method	TBLASTX:Cress
Start	1447	End	1800
GI	none	Score	255
Exons	1447..1800, 1542..1604, 1594..1704		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o3.tm	Method	TBLASTX:Maize
Start	1542	End	1773
GI	none	Score	61
Exons	1542..1763, 1569..1754, 1570..1773, 1570..1773		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o3.tw	Method	TBLASTX:Wheat
Start	1714	End	2051
GI	none	Score	51
Exons	1714..1746, 1750..1848, 1752..1850, 1894..1992, 1906..1968, 2001..2051, 2002..2040		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o1.tw	Method	TBLASTX:Wheat
Start	2680	End	3888
GI	none	Score	547
Exons	2680..3435, 2928..3209, 3414..3587, 3448..3603, 3592..3696,		

3622..3678, 3709..3813, 3714..3806, 3820..3888

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o2.tm	Method	TBLASTX:Maize
Start	2724	End	3039
GI	none	Score	393
Exons	2724..3035, 2725..3039		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o1.tc	Method	TBLASTX:Cress
Start	2970	End	3393
GI	none	Score	317
Exons	2970..3209, 2971..3393		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o4.tm	Method	TBLASTX:Maize
Start	3289	End	3584
GI	none	Score	149
Exons	3289..3453, 3463..3582, 3471..3584		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o2.np	Method	AAT/NAP
Start	10850	End	12445
GI	2586127	Score	391
Exons	10850..11523, 12417..12445		
GI Descrip.	(U89510) b-keto acyl reductase [Hordeum vulgare]		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o1.tm	Method	TBLASTX:Maize
Start	10907	End	11344
GI	none	Score	75
Exons	10907..10990, 11018..11344, 11030..11344		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o2.ts	Method	TBLASTX:Soybean
Start	10997	End	11212
GI	none	Score	183
Exons	10997..11212		

Seq. No.	28154	Seq. ID	OJ000250_95.0214.C18
Gene No.	57941	Strand	+
Start	10850	End	12445
Name	OJ000250_95.0214.C18.o3.tc	Method	TBLASTX:Cress
Start	10997	End	11464
GI	none	Score	171

Exons	10997..11164, 11011..11061, 11132..11464		
Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57942	Strand	+
Start	54	End	419
Name	OJ000250_95.0214.C19.o1.gs	Method	GENSCAN
Start	54	End	419
GI	none	Score	.48
Exons	54..249, 304..419		
Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57943	Strand	+
Start	6284	End	7716
Name	OJ000250_95.0214.C19.o3.gs	Method	GENSCAN
Start	6284	End	7716
GI	none	Score	.91
Exons	6284..6443, 6567..6715, 6791..6952, 7597..7716		
Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57943	Strand	+
Start	6284	End	7716
Name	OJ000250_95.0214.C19.o1.np	Method	AAT/NAP
Start	6365	End	7010
GI	5932539	Score	322
Exons	6365..6443, 6567..6715, 6791..7010		
GI Descrip.	(AC009465) unknown protein [Arabidopsis thaliana]		
Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57944	Strand	+
Start	9709	End	11620
Name	OJ000250_95.0214.C19.o2.np	Method	AAT/NAP
Start	9709	End	11620
GI	4680192	Score	79
Exons	9709..9877, 11541..11620		
GI Descrip.	(AF111710) hypothetical protein [Oryza sativa subsp. indica]		
Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57945	Strand	-
Start	9435	End	11620
Name	OJ000250_95.0214.C19.o1.tm	Method	TBLASTX:Maize
Start	6556	End	7733
GI	none	Score	230
Exons	6556..6714, 6560..6715, 6566..6730, 6738..6893, 6749..6952, 6788..6955, 6790..6954, 7584..7733, 7586..7705, 7597..7713		
Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57945	Strand	-
Start	9435	End	11620
Name	OJ000250_95.0214.C19.o1.ts	Method	TBLASTX:Soybean
Start	6689	End	6960
GI	none	Score	41
Exons	6689..6715, 6788..6958, 6790..6960, 6817..6957		
Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57945	Strand	-
Start	9435	End	11620
Name	OJ000250_95.0214.C19.o3.np	Method	AAT/NAP

Start	8717	End	11620
GI	5734621	Score	116
Exons	8717..8776, 11237..11420, 11562..11620		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57945	Strand	-
Start	9435	End	11620
Name	OJ000250_95.0214.C19.o1.gp	Method	AAT/GAP
Start	9237	End	10203
GI	none	Score	791
Exons	9237..9518, 10045..10203		

Seq. No.	28155	Seq. ID	OJ000250_95.0214.C19
Gene No.	57945	Strand	-
Start	9435	End	11620
Name	OJ000250_95.0214.C19.o4.gs	Method	GENSCAN
Start	9435	End	10189
GI	none	Score	.73
Exons	9435..9518, 9748..9873, 10045..10189		

Seq. No.	28156	Seq. ID	OJ000250_95.0214.C20
Gene No.	57946	Strand	-
Start	609	End	2072
Name	OJ000250_95.0214.C20.o1.gs	Method	GENSCAN
Start	609	End	2072
GI	none	Score	.76
Exons	609..725, 1117..1196, 1292..2072		

Seq. No.	28156	Seq. ID	OJ000250_95.0214.C20
Gene No.	57946	Strand	-
Start	609	End	2072
Name	OJ000250_95.0214.C20.o1.gp	Method	AAT/GAP
Start	1140	End	1693
GI	none	Score	850
Exons	1140..1196, 1292..1693		

Seq. No.	28156	Seq. ID	OJ000250_95.0214.C20
Gene No.	57946	Strand	-
Start	609	End	2072
Name	OJ000250_95.0214.C20.o1.tm	Method	TBLASTX:Maize
Start	1467	End	1786
GI	none	Score	92
Exons	1467..1586, 1471..1635, 1472..1585, 1577..1786, 1589..1759, 1590..1760		

Seq. No.	28157	Seq. ID	OJ000250_95.0214.C21
Gene No.	57947	Strand	-
Start	1	End	3070
Name	OJ000250_95.0214.C21.o1.gp	Method	AAT/GAP
Start	1	End	122
GI	none	Score	203
Exons	1..122		

Seq. No.	28157	Seq. ID	OJ000250_95.0214.C21
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Gene No.	57947	Strand	-
Start	1	End	3070
Name	OJ000250_95.0214.C21.o1.gs	Method	GENSCAN
Start	4	End	3070
GI	none	Score	.86
Exons	4..913, 1011..1630, 2220..2332, 2827..2907, 3037..3070		

Seq. No.	28157	Seq. ID	OJ000250_95.0214.C21
Gene No.	57947	Strand	-
Start	1	End	3070
Name	OJ000250_95.0214.C21.o2.tm	Method	TBLASTX:Maize
Start	15	End	215
GI	none	Score	179
Exons	15..188, 15..215, 19..189		

Seq. No.	28157	Seq. ID	OJ000250_95.0214.C21
Gene No.	57947	Strand	-
Start	1	End	3070
Name	OJ000250_95.0214.C21.o1.tm	Method	TBLASTX:Maize
Start	426	End	1289
GI	none	Score	101
Exons	426..530, 444..557, 574..663, 575..664, 669..731, 671..733, 742..915, 743..925, 1005..1079, 1006..1092, 1011..1145, 1025..1144, 1163..1288, 1167..1289		

Seq. No.	28157	Seq. ID	OJ000250_95.0214.C21
Gene No.	57947	Strand	-
Start	1	End	3070
Name	OJ000250_95.0214.C21.o3.tm	Method	TBLASTX:Maize
Start	2600	End	2875
GI	none	Score	66
Exons	2600..2653, 2610..2657, 2611..2670, 2661..2693, 2662..2697, 2663..2698, 2694..2777, 2695..2772, 2750..2779, 2772..2831, 2773..2832, 2773..2832, 2774..2833, 2839..2874, 2839..2874, 2840..2875		

Seq. No.	28158	Seq. ID	OJ000250_95.0214.C22
Gene No.	57948	Strand	-
Start	336	End	426
Name	OJ000250_95.0214.C22.o1.gs	Method	GENSCAN
Start	336	End	426
GI	none	Score	.96
Exons	336..426		

Seq. No.	28159	Seq. ID	OJ000250_95.0214.C27
Gene No.	57949	Strand	-
Start	175	End	320
Name	OJ000250_95.0214.C27.o1.gs	Method	GENSCAN
Start	175	End	320
GI	none	Score	.66
Exons	175..320		

Seq. No.	28160	Seq. ID	OJ000250_95.0214.C28
Gene No.	57950	Strand	-
Start	1	End	247
Name	OJ000250_95.0214.C28.o1.np	Method	AAT/NAP
Start	1	End	247

GI 2121177 Score 402  
 Exons 1..247  
 GI Descrip. hypothetical protein (transposon Tn1000) - Escherichia coli  
 gi|43087|emb|CAA42758| (X60200) ORF [Escherichia coli]  
 gi|303568|dbj|BAA03916| (D16449) ORF [Escherichia coli]

Seq. No. 28161 Seq. ID OJ000250\_95.0214.C29  
 Gene No. 57951 Strand -  
 Start 177 End 621  
 Name OJ000250\_95.0214.C29.o1.np Method AAT/NAP  
 Start 177 End 621  
 GI 2586127 Score 272  
 Exons 177..621  
 GI Descrip. (U89510) b-keto acyl reductase [Hordeum vulgare]

Seq. No. 28161 Seq. ID OJ000250\_95.0214.C29  
 Gene No. 57951 Strand -  
 Start 177 End 621  
 Name OJ000250\_95.0214.C29.o1.tm Method TBLASTX:Maize  
 Start 177 End 423  
 GI none Score 89  
 Exons 177..422, 204..299, 214..423

Seq. No. 28161 Seq. ID OJ000250\_95.0214.C29  
 Gene No. 57951 Strand -  
 Start 177 End 621  
 Name OJ000250\_95.0214.C29.o1.ts Method TBLASTX:Soybean  
 Start 177 End 423  
 GI none Score 125  
 Exons 177..422, 211..423

Seq. No. 28161 Seq. ID OJ000250\_95.0214.C29  
 Gene No. 57951 Strand -  
 Start 177 End 621  
 Name OJ000250\_95.0214.C29.o1.gs Method GENSCAN  
 Start 204 End 572  
 GI none Score .54  
 Exons 204..572

Seq. No. 28162 Seq. ID OJ000250\_95.0214.C30  
 Gene No. 57952 Strand +  
 Start 935 End 1606  
 Name OJ000250\_95.0214.C30.o1.gs Method GENSCAN  
 Start 935 End 1606  
 GI none Score .9  
 Exons 935..1000, 1131..1260, 1530..1606

Seq. No. 28162 Seq. ID OJ000250\_95.0214.C30  
 Gene No. 57953 Strand -  
 Start 225 End 5910  
 Name OJ000250\_95.0214.C30.o1.np Method AAT/NAP  
 Start 225 End 2830  
 GI 2586129 Score 411  
 Exons 225..262, 1609..1703, 2171..2830  
 GI Descrip. (U89509) b-keto acyl reductase [Zea mays]

Seq. No. 28162 Seq. ID OJ000250\_95.0214.C30

Gene No.	57953	Strand	-
Start	225	End	5910
Name	OJ000250_95.0214.C30.o2.gs	Method	GENSCAN
Start	2606	End	5910
GI	none	Score	.75
Exons	2606..2899, 4602..4737, 4776..5155, 5896..5910		

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57954	Strand	-
Start	29	End	1872
Name	OJ000250_95.0214.C31.o1.gs	Method	GENSCAN
Start	29	End	1832
GI	none	Score	.87
Exons	29..301, 535..604, 689..977, 1493..1832		

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57954	Strand	-
Start	29	End	1872
Name	OJ000250_95.0214.C31.o1.np	Method	AAT/NAP
Start	35	End	1872
GI	2586127	Score	517
Exons	35..277, 526..604, 689..969, 1500..1872		
GI Descrip.	(U89510) b-keto acyl reductase [Hordeum vulgare]		

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57955	Strand	-
Start	5607	End	9851
Name	OJ000250_95.0214.C31.o2.tm	Method	TBLASTX:Maize
Start	74	End	1727
GI	none	Score	61
Exons	74..307, 120..215, 526..603, 533..610, 682..960, 683..874, 858..914, 1557..1706, 1569..1727		

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57955	Strand	-
Start	5607	End	9851
Name	OJ000250_95.0214.C31.o1.ts	Method	TBLASTX:Soybean
Start	95	End	954
GI	none	Score	65
Exons	95..307, 298..336, 526..603, 533..610, 682..954, 686..886		

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57955	Strand	-
Start	5607	End	9851
Name	OJ000250_95.0214.C31.o1.tw	Method	TBLASTX:Wheat
Start	178	End	9782
GI	none	Score	60
Exons	178..297, 9350..9484, 9379..9483, 9575..9700, 9576..9716, 9749..9781, 9750..9782		

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57955	Strand	-
Start	5607	End	9851
Name	OJ000250_95.0214.C31.o2.np	Method	AAT/NAP
Start	5607	End	9772
GI	2982451	Score	674
Exons	5607..5714, 6023..6143, 9185..9772		



GI Descrip. (AL022223) putative protein [Arabidopsis thaliana]

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57955	Strand	-
Start	5607	End	9851
Name	OJ000250_95.0214.C31.o1.tm	Method	TBLASTX:Maize
Start	5614	End	9635
GI	none	Score	93
Exons	5614..5694, 5637..5717, 6018..6128, 6020..6136, 6022..6129, 9194..9484, 9217..9483, 9578..9634, 9579..9635		

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57955	Strand	-
Start	5607	End	9851
Name	OJ000250_95.0214.C31.o1.tc	Method	TBLASTX:Cress
Start	6020	End	9704
GI	none	Score	71
Exons	6020..6136, 6021..6128, 6032..6136, 9206..9442, 9217..9453, 9575..9700, 9576..9704		

Seq. No.	28163	Seq. ID	OJ000250_95.0214.C31
Gene No.	57955	Strand	-
Start	5607	End	9851
Name	OJ000250_95.0214.C31.o1.gp	Method	AAT/GAP
Start	9253	End	9851
GI	uC-osflm202108b10b1	Score	976
Exons	9253..9484, 9576..9851		
GI Descrip.	'2982451/emb CAA18215.1  7.0e-38 (AL022223) putative protein [Arabidopsis thaliana]'		

Seq. No.	28164	Seq. ID	OJ000250_95.0214.C32
Gene No.	57956	Strand	+
Start	729	End	778
Name	OJ000250_95.0214.C32.o1.gs	Method	GENSCAN
Start	729	End	778
GI	none	Score	.43
Exons	729..778		

Seq. No.	28165	Seq. ID	OJ000250_95.0214.C33
Gene No.	57957	Strand	+
Start	94	End	230
Name	OJ000250_95.0214.C33.o1.gs	Method	GENSCAN
Start	94	End	230
GI	none	Score	.73
Exons	94..230		

Seq. No.	28166	Seq. ID	OJ000250_95.0214.C34
Gene No.	57958	Strand	
Start	4	End	231
Name	OJ000250_95.0214.C34.o1.tw	Method	TBLASTX:Wheat
Start	4	End	231
GI	none	Score	210
Exons	4..231		

Seq. No.	28167	Seq. ID	OJ000250_95.0214.C35
Gene No.	57959	Strand	+
Start	118	End	355

Name	OJ000250_95.0214.C35.o1.gs	Method	GENSCAN
Start	118	End	355
GI	none	Score	.77
Exons	118..355		
Seq. No.	28167	Seq. ID	OJ000250_95.0214.C35
Gene No.	57959	Strand	+
Start	118	End	355
Name	OJ000250_95.0214.C35.o1.ts	Method	TBLASTX:Soybean
Start	137	End	334
GI	none	Score	185
Exons	137..334, 137..253, 142..276		
Seq. No.	28168	Seq. ID	OJ000250_95.0214.C36
Gene No.	57960	Strand	+
Start	168	End	546
Name	OJ000250_95.0214.C36.o1.gs	Method	GENSCAN
Start	168	End	546
GI	none	Score	.8
Exons	168..546		
Seq. No.	28169	Seq. ID	OJ000250_95.0214.C39
Gene No.	57961	Strand	-
Start	133	End	198
Name	OJ000250_95.0214.C39.o1.gs	Method	GENSCAN
Start	133	End	198
GI	none	Score	.56
Exons	133..198		
Seq. No.	28170	Seq. ID	OJ000250_95.0214.C40
Gene No.	57962	Strand	+
Start	84	End	356
Name	OJ000250_95.0214.C40.o1.gs	Method	GENSCAN
Start	84	End	356
GI	none	Score	.57
Exons	84..173, 274..356		
Seq. No.	28171	Seq. ID	OJ000250_97.0214.C1
Gene No.	57963	Strand	+
Start	114	End	235
Name	OJ000250_97.0214.C1.o1.gs	Method	GENSCAN
Start	114	End	235
GI	none	Score	.58
Exons	114..235		
Seq. No.	28171	Seq. ID	OJ000250_97.0214.C1
Gene No.	57964	Strand	-
Start	948	End	1735
Name	OJ000250_97.0214.C1.o1.np	Method	AAT/NAP
Start	948	End	1735
GI	4680183	Score	181
Exons	948..1037, 1643..1735		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57965	Strand	+
Start	568	End	5474

Name	OJ000250_97.0214.C2.o1.gs	Method	GENSCAN
Start	568	End	5474
GI	none	Score	.5
Exons	568..687, 743..832, 878..1052, 1393..1488, 1744..1824, 1864..2071, 2093..2212, 2288..2504, 2510..2774, 2973..3121, 3426..3636, 4623..4676, 5398..5474		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57966	Strand	-
Start	5752	End	6358
Name	OJ000250_97.0214.C2.o2.gs	Method	GENSCAN
Start	5752	End	6358
GI	none	Score	.84
Exons	5752..5893, 5985..6358		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o10.tw	Method	TBLASTX:Wheat
Start	907	End	1128
GI	none	Score	180
Exons	907..1128		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o1.tc	Method	TBLASTX:Cress
Start	922	End	1230
GI	none	Score	193
Exons	922..1230		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o9.tw	Method	TBLASTX:Wheat
Start	2001	End	2360
GI	none	Score	107
Exons	2001..2156, 2187..2360, 2258..2341		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o2.np	Method	AAT/NAP
Start	6985	End	11501
GI	4680179	Score	5245
Exons	6985..10385, 10419..11501		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o6.tw	Method	TBLASTX:Wheat
Start	7030	End	7363
GI	none	Score	125
Exons	7030..7362, 7130..7363		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
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Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o3.gs	Method	GENSCAN
Start	7096	End	13760
GI	none	Score	.44
Exons	7096..7776, 8085..8747, 8904..10024, 10307..10484, 10490..10657, 10698..11069, 11154..11501, 11652..11676, 11733..11941, 12082..12338, 13439..13760		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o1.tm	Method	TBLASTX:Maize
Start	7210	End	7809
GI	none	Score	208
Exons	7210..7650, 7226..7648, 7648..7809, 7655..7801		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o1.tw	Method	TBLASTX:Wheat
Start	7363	End	7989
GI	none	Score	87
Exons	7363..7989, 7402..7617, 7475..7933		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o4.tm	Method	TBLASTX:Maize
Start	7858	End	8148
GI	none	Score	122
Exons	7858..8019, 7862..8020, 7946..8026, 8018..8086, 8025..8147, 8026..8148		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o2.ts	Method	TBLASTX:Soybean
Start	7948	End	8207
GI	none	Score	51
Exons	7948..8049, 7949..8020, 8025..8207, 8026..8196		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o2.tw	Method	TBLASTX:Wheat
Start	8019	End	8559
GI	none	Score	339
Exons	8019..8531, 8026..8559		

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o2.tm	Method	TBLASTX:Maize
Start	8550	End	8916
GI	none	Score	134
Exons	8550..8915, 8562..8915, 8566..8916		

Seq. No. 28172  
 Gene No. 57967  
 Start 7096  
 Name OJ000250\_97.0214.C2.o3.tw  
 Start 8562  
 GI none  
 Exons 8562..8987, 8566..8955

Seq. ID OJ000250\_97.0214.C2  
 Strand -  
 End 13760  
 Method TBLASTX:Wheat  
 End 8987  
 Score 334

Seq. No. 28172  
 Gene No. 57967  
 Start 7096  
 Name OJ000250\_97.0214.C2.o3.ts  
 Start 8736  
 GI none  
 Exons 8736..8978, 8737..8964

Seq. ID OJ000250\_97.0214.C2  
 Strand -  
 End 13760  
 Method TBLASTX:Soybean  
 End 8978  
 Score 93

Seq. No. 28172  
 Gene No. 57967  
 Start 7096  
 Name OJ000250\_97.0214.C2.o3.tm  
 Start 8952  
 GI none  
 Exons 8952..9266, 8961..9104, 9073..9201, 9273..9452

Seq. ID OJ000250\_97.0214.C2  
 Strand -  
 End 13760  
 Method TBLASTX:Maize  
 End 9452  
 Score 66

Seq. No. 28172  
 Gene No. 57967  
 Start 7096  
 Name OJ000250\_97.0214.C2.o5.tw  
 Start 8988  
 GI none  
 Exons 8988..9290, 9004..9279, 9182..9289

Seq. ID OJ000250\_97.0214.C2  
 Strand -  
 End 13760  
 Method TBLASTX:Wheat  
 End 9290  
 Score 290

Seq. No. 28172  
 Gene No. 57967  
 Start 7096  
 Name OJ000250\_97.0214.C2.o1.ts  
 Start 9003  
 GI none  
 Exons 9003..9362, 9004..9279, 9328..9360, 9366..9398, 9366..9398

Seq. ID OJ000250\_97.0214.C2  
 Strand -  
 End 13760  
 Method TBLASTX:Soybean  
 End 9398  
 Score 223

Seq. No. 28172  
 Gene No. 57967  
 Start 7096  
 Name OJ000250\_97.0214.C2.o4.tw  
 Start 9338  
 GI none  
 Exons 9338..9688, 9342..9689, 9342..9716, 9382..9813, 9595..9747, 9771..9821

Seq. ID OJ000250\_97.0214.C2  
 Strand -  
 End 13760  
 Method TBLASTX:Wheat  
 End 9821  
 Score 212

Seq. No. 28172  
 Gene No. 57967  
 Start 7096  
 Name OJ000250\_97.0214.C2.o5.tm  
 Start 9520  
 GI none  
 Exons 9520..9810, 9522..9809

Seq. ID OJ000250\_97.0214.C2  
 Strand -  
 End 13760  
 Method TBLASTX:Maize  
 End 9810  
 Score 169

Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o8.tw	Method	TBLASTX:Wheat
Start	9939	End	10359
GI	none	Score	69
Exons	9939..10103, 10009..10104, 10149..10358, 10216..10359		
Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o6.tm	Method	TBLASTX:Maize
Start	10716	End	11021
GI	none	Score	86
Exons	10716..11021, 10843..11007		
Seq. No.	28172	Seq. ID	OJ000250_97.0214.C2
Gene No.	57967	Strand	-
Start	7096	End	13760
Name	OJ000250_97.0214.C2.o7.tw	Method	TBLASTX:Wheat
Start	10902	End	11262
GI	none	Score	159
Exons	10902..11261, 10903..11262		
Seq. No.	28173	Seq. ID	OJ000250_97.0214.C3
Gene No.	57968	Strand	+
Start	1	End	1317
Name	OJ000250_97.0214.C3.o1.np	Method	AAT/NAP
Start	1	End	1317
GI	6539553	Score	2266
Exons	1..1317		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		
Seq. No.	28173	Seq. ID	OJ000250_97.0214.C3
Gene No.	57968	Strand	+
Start	1	End	1317
Name	OJ000250_97.0214.C3.o1.tw	Method	TBLASTX:Wheat
Start	7	End	277
GI	none	Score	253
Exons	7..276, 14..277		
Seq. No.	28173	Seq. ID	OJ000250_97.0214.C3
Gene No.	57968	Strand	+
Start	1	End	1317
Name	OJ000250_97.0214.C3.o2.tm	Method	TBLASTX:Maize
Start	26	End	339
GI	none	Score	362
Exons	26..337, 34..339		
Seq. No.	28173	Seq. ID	OJ000250_97.0214.C3
Gene No.	57968	Strand	+
Start	1	End	1317
Name	OJ000250_97.0214.C3.o1.tm	Method	TBLASTX:Maize

Start	838	End	1160
GI	none	Score	268
Exons	838..1092, 845..1159, 865..1158, 993..1160		

Seq. No.	28174	Seq. ID	OJ000250_97.0214.C4
Gene No.	57969	Strand	+
Start	1	End	2356
Name	OJ000250_97.0214.C4.o1.np	Method	AAT/NAP
Start	1	End	2356
GI	6539553	Score	3995
Exons	1..2356		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	28174	Seq. ID	OJ000250_97.0214.C4
Gene No.	57969	Strand	+
Start	1	End	2356
Name	OJ000250_97.0214.C4.o4.tw	Method	TBLASTX:Wheat
Start	2	End	179
GI	none	Score	259
Exons	2..58, 3..179, 3..179		

Seq. No.	28174	Seq. ID	OJ000250_97.0214.C4
Gene No.	57969	Strand	+
Start	1	End	2356
Name	OJ000250_97.0214.C4.o3.tm	Method	TBLASTX:Maize
Start	36	End	530
GI	none	Score	228
Exons	36..344, 119..310, 165..320, 363..530		

Seq. No.	28174	Seq. ID	OJ000250_97.0214.C4
Gene No.	57969	Strand	+
Start	1	End	2356
Name	OJ000250_97.0214.C4.o3.ts	Method	TBLASTX:Soybean
Start	132	End	530
GI	none	Score	197
Exons	132..356, 140..310, 141..311, 357..530		

Seq. No.	28174	Seq. ID	OJ000250_97.0214.C4
Gene No.	57969	Strand	+
Start	1	End	2356
Name	OJ000250_97.0214.C4.o1.tw	Method	TBLASTX:Wheat
Start	180	End	935
GI	none	Score	923
Exons	180..935, 188..667, 687..935		

Seq. No.	28174	Seq. ID	OJ000250_97.0214.C4
Gene No.	57969	Strand	+
Start	1	End	2356
Name	OJ000250_97.0214.C4.o1.ts	Method	TBLASTX:Soybean
Start	855	End	1324
GI	5509260	Score	95
Exons	855..998, 1004..1324, 1078..1173, 1246..1305		
GI Descrip.	-		

Seq. No. 28174  
 Gene No. 57969  
 Start 1  
 Name OJ000250\_97.0214.C4.o1.tc  
 Start 948  
 GI none  
 Exons 948..1007, 1016..1213

Seq. ID OJ000250\_97.0214.C4  
 Strand +  
 End 2356  
 Method TBLASTX:Cress  
 End 1213  
 Score 78

Seq. No. 28174  
 Gene No. 57969  
 Start 1  
 Name OJ000250\_97.0214.C4.o1.tm  
 Start 1007  
 GI none  
 Exons 1007..1441, 1078..1176, 1246..1356

Seq. ID OJ000250\_97.0214.C4  
 Strand +  
 End 2356  
 Method TBLASTX:Maize  
 End 1441  
 Score 342

Seq. No. 28174  
 Gene No. 57969  
 Start 1  
 Name OJ000250\_97.0214.C4.o3.tw  
 Start 1016  
 GI none  
 Exons 1016..1339, 1334..1540, 1381..1530

Seq. ID OJ000250\_97.0214.C4  
 Strand +  
 End 2356  
 Method TBLASTX:Wheat  
 End 1540  
 Score 296

Seq. No. 28174  
 Gene No. 57969  
 Start 1  
 Name OJ000250\_97.0214.C4.o2.ts  
 Start 1393  
 GI none  
 Exons 1393..1593, 1394..1738

Seq. ID OJ000250\_97.0214.C4  
 Strand +  
 End 2356  
 Method TBLASTX:Soybean  
 End 1738  
 Score 312

Seq. No. 28174  
 Gene No. 57969  
 Start 1  
 Name OJ000250\_97.0214.C4.o2.tm  
 Start 1549  
 GI none  
 Exons 1549..1887, 1550..1888

Seq. ID OJ000250\_97.0214.C4  
 Strand +  
 End 2356  
 Method TBLASTX:Maize  
 End 1888  
 Score 318

Seq. No. 28174  
 Gene No. 57969  
 Start 1  
 Name OJ000250\_97.0214.C4.o2.tw  
 Start 1744  
 GI none  
 Exons 1744..1815, 1745..1819, 1746..1817, 1834..2220, 1835..2182

Seq. ID OJ000250\_97.0214.C4  
 Strand +  
 End 2356  
 Method TBLASTX:Wheat  
 End 2220  
 Score 101

Seq. No. 28174  
 Gene No. 57969  
 Start 1  
 Name OJ000250\_97.0214.C4.o4.ts  
 Start 1751  
 GI none  
 Exons 1751..1864, 1777..1857, 1883..2092, 1888..2013

Seq. ID OJ000250\_97.0214.C4  
 Strand +  
 End 2356  
 Method TBLASTX:Soybean  
 End 2092  
 Score 91

Seq. No. 28175

Seq. ID OJ000250\_97.0214.C5



Gene No. 57970  
 Start 11  
 Name OJ000250\_97.0214.C5.o1.gs  
 Start 11  
 GI none  
 Exons 11..117, 310..545, 1279..1359

Strand +  
 End 1359  
 Method GENSCAN  
 End 1359  
 Score .57

Seq. No. 28176  
 Gene No. 57971  
 Start 1  
 Name OJ000250\_97.0214.C6.o1.np  
 Start 1  
 GI 6006894  
 Exons 1..149  
 GI Descrip. (AC008153) unknown protein [Arabidopsis thaliana]

Seq. ID OJ000250\_97.0214.C6  
 Strand +  
 End 149  
 Method AAT/NAP  
 End 149  
 Score 131

Seq. No. 28176  
 Gene No. 57971  
 Start 1  
 Name OJ000250\_97.0214.C6.o1.ts  
 Start 3  
 GI none  
 Exons 3..149, 11..145

Seq. ID OJ000250\_97.0214.C6  
 Strand +  
 End 149  
 Method TBLASTX:Soybean  
 End 149  
 Score 185

Seq. No. 28177  
 Gene No. 57972  
 Start 21  
 Name OJ000250\_97.0214.C7.o1.gs  
 Start 21  
 GI none  
 Exons 21..89

Seq. ID OJ000250\_97.0214.C7  
 Strand +  
 End 89  
 Method GENSCAN  
 End 89  
 Score .8

Seq. No. 28178  
 Gene No. 57973  
 Start 617  
 Name OJ000250\_97.0214.C15.o1.gs  
 Start 617  
 GI none  
 Exons 617..805

Seq. ID OJ000250\_97.0214.C15  
 Strand -  
 End 805  
 Method GENSCAN  
 End 805  
 Score .75

Seq. No. 28179  
 Gene No. 57974  
 Start 1352  
 Name OJ000250\_97.0214.C16.o1.gs  
 Start 1352  
 GI none  
 Exons 1352..1514, 2119..2212, 2279..2307, 3553..3810, 3859..4100

Seq. ID OJ000250\_97.0214.C16  
 Strand +  
 End 4100  
 Method GENSCAN  
 End 4100  
 Score .72

Seq. No. 28179  
 Gene No. 57975  
 Start 20155  
 Name OJ000250\_97.0214.C16.o3.gs  
 Start 20155  
 GI none  
 Exons 20155..20238, 20368..20520

Seq. ID OJ000250\_97.0214.C16  
 Strand +  
 End 20520  
 Method GENSCAN  
 End 20520  
 Score .82

Seq. No. 28179 Seq. ID OJ000250\_97.0214.C16

Gene No.	57976	Strand	+
Start	22148	End	29267
Name	OJ000250_97.0214.C16.o2.np	Method	AAT/NAP
Start	22148	End	29058
GI	4966343	Score	862
Exons	22148..22180, 23208..23423, 24183..24551, 24647..24764, 28496..28719, 28875..29058		
GI Descrip.	(AC006341) Is a member of PF 00481 Protein phosphatase 2C family. [Arabidopsis thaliana]		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57976	Strand	+
Start	22148	End	29267
Name	OJ000250_97.0214.C16.o5.gs	Method	GENSCAN
Start	24175	End	29267
GI	none	Score	.69
Exons	24175..24263, 24287..24551, 24647..24764, 25159..25313, 25470..25588, 27038..27111, 28496..28719, 28875..29267		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57977	Strand	-
Start	2628	End	4137
Name	OJ000250_97.0214.C16.o1.np	Method	AAT/NAP
Start	2628	End	4137
GI	6069646	Score	261
Exons	2628..2692, 3572..4137		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57978	Strand	-
Start	9288	End	10822
Name	OJ000250_97.0214.C16.o1.gp	Method	AAT/GAP
Start	9288	End	10822
GI	57713_5.R1084	Score	515
Exons	9288..9535, 10757..10822		
GI Descrip.	'6015116/sp 082653 ERG ARATH 3.0e-34 GTP-BINDING PROTEIN ERG >gi_3676071_emb_CAA76979_ (Y17969) ERG protein [Arabidopsis thaliana]'		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57979	Strand	-
Start	11769	End	12232
Name	OJ000250_97.0214.C16.o2.gp	Method	AAT/GAP
Start	11769	End	12232
GI	none	Score	782
Exons	11769..12232		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57980	Strand	-
Start	22856	End	23410
Name	OJ000250_97.0214.C16.o4.gs	Method	GENSCAN
Start	22856	End	23410
GI	none	Score	.41

Exons 22856..23410

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57981	Strand	-
Start	31032	End	31618
Name	OJ000250_97.0214.C16.o2.tm	Method	TBLASTX:Maize
Start	3567	End	4085
GI	none	Score	276
Exons	3567..4085		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57981	Strand	-
Start	31032	End	31618
Name	OJ000250_97.0214.C16.o1.tm	Method	TBLASTX:Maize
Start	23370	End	29041
GI	none	Score	83
Exons	23370..23441, 24180..24290, 24200..24280, 24393..24551, 24425..24550, 24641..24754, 24644..24766, 24646..24765, 28491..28721, 28492..28722, 28854..29036, 28875..29036, 28940..29041		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57981	Strand	-
Start	31032	End	31618
Name	OJ000250_97.0214.C16.o2.ts	Method	TBLASTX:Soybean
Start	24444	End	24765
GI	none	Score	109
Exons	24444..24560, 24452..24550, 24641..24763, 24644..24763, 24646..24765		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57981	Strand	-
Start	31032	End	31618
Name	OJ000250_97.0214.C16.o1.tc	Method	TBLASTX:Cress
Start	24446	End	28928
GI	none	Score	116
Exons	24446..24550, 24447..24551, 24635..24766, 24646..24753, 28488..28664, 28492..28698, 28684..28722, 28854..28928		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57981	Strand	-
Start	31032	End	31618
Name	OJ000250_97.0214.C16.o1.ts	Method	TBLASTX:Soybean
Start	28481	End	29039
GI	none	Score	97
Exons	28481..28651, 28488..28661, 28491..28649, 28492..28722, 28680..28718, 28854..28943, 28893..29039		

Seq. No.	28179	Seq. ID	OJ000250_97.0214.C16
Gene No.	57981	Strand	-
Start	31032	End	31618
Name	OJ000250_97.0214.C16.o6.gs	Method	GENSCAN
Start	31032	End	31618
GI	none	Score	.74
Exons	31032..31148, 31307..31618		

Seq. No.	28180	Seq. ID	OJ000250_97.0214.C17
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Gene No.	57982	Strand	+
Start	291	End	362
Name	OJ000250_97.0214.C17.o1.gs	Method	GENSCAN
Start	291	End	362
GI	none	Score	.77
Exons	291..362		

Seq. No.	28181	Seq. ID	OJ000250_97.0214.C18
Gene No.	57983	Strand	+
Start	299	End	3120
Name	OJ000250_97.0214.C18.o1.gs	Method	GENSCAN
Start	299	End	3120
GI	none	Score	.68
Exons	299..728, 1002..1064, 1216..1353, 1636..1834, 1876..1996, 2696..2773, 2893..3120		

Seq. No.	28181	Seq. ID	OJ000250_97.0214.C18
Gene No.	57984	Strand	+
Start	13111	End	17075
Name	OJ000250_97.0214.C18.o1.np	Method	AAT/NAP
Start	13111	End	17075
GI	6523547	Score	156
Exons	13111..13373, 14584..14940, 15107..15386, 17007..17075		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	28181	Seq. ID	OJ000250_97.0214.C18
Gene No.	57985	Strand	-
Start	11104	End	11715
Name	OJ000250_97.0214.C18.o3.gs	Method	GENSCAN
Start	11104	End	11715
GI	none	Score	.71
Exons	11104..11715		

Seq. No.	28181	Seq. ID	OJ000250_97.0214.C18
Gene No.	57986	Strand	-
Start	12984	End	13872
Name	OJ000250_97.0214.C18.o4.gs	Method	GENSCAN
Start	12984	End	13872
GI	none	Score	.99
Exons	12984..13065, 13778..13872		

Seq. No.	28181	Seq. ID	OJ000250_97.0214.C18
Gene No.	57987	Strand	-
Start	25383	End	34583
Name	OJ000250_97.0214.C18.o2.np	Method	AAT/NAP
Start	25383	End	31152
GI	6523547	Score	173
Exons	25383..25943, 26088..26354, 28460..28644, 29621..29713, 31049..31152		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	28181	Seq. ID	OJ000250_97.0214.C18
Gene No.	57987	Strand	-
Start	25383	End	34583
Name	OJ000250_97.0214.C18.o6.gs	Method	GENSCAN

Start	28174	End	29771
GI	none	Score	.65
Exons	28174..28277, 28344..28488, 29613..29771		

  

Seq. No.	28181	Seq. ID	OJ000250_97.0214.C18
Gene No.	57987	Strand	-
Start	25383	End	34583
Name	OJ000250_97.0214.C18.o7.gs	Method	GENSCAN
Start	30240	End	34583
GI	none	Score	.82
Exons	30240..30277, 30652..30742, 34026..34095, 34405..34583		

Seq. No.	28182	Seq. ID	OJ000250_90.0214.C1
Gene No.	57988	Strand	+
Start	1	End	596
Name	OJ000250_90.0214.C1.o1.np	Method	AAT/NAP
Start	1	End	596
GI	5803259	Score	941
Exons	1..596		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	28182	Seq. ID	OJ000250_90.0214.C1
Gene No.	57988	Strand	+
Start	1	End	596
Name	OJ000250_90.0214.C1.o1.gs	Method	GENSCAN
Start	56	End	549
GI	none	Score	.52
Exons	56..549		

Seq. No.	28183	Seq. ID	OJ000250_90.0214.C2
Gene No.	57989	Strand	-
Start	1	End	656
Name	OJ000250_90.0214.C2.o1.np	Method	AAT/NAP
Start	1	End	617
GI	6729531	Score	376
Exons	1..617		
GI Descrip.	(AL132977) anthranilate phosphoribosyltransferase-like protein [Arabidopsis thaliana]		

Seq. No.	28183	Seq. ID	OJ000250_90.0214.C2
Gene No.	57989	Strand	-
Start	1	End	656
Name	OJ000250_90.0214.C2.o1.gs	Method	GENSCAN
Start	8	End	656
GI	none	Score	.84
Exons	8..491, 511..656		

Seq. No.	28183	Seq. ID	OJ000250_90.0214.C2
Gene No.	57989	Strand	-
Start	1	End	656
Name	OJ000250_90.0214.C2.o1.tm	Method	TBLASTX:Maize
Start	71	End	461
GI	none	Score	68
Exons	71..178, 185..262, 186..257, 257..460, 270..461		

Seq. No.	28183	Seq. ID	OJ000250_90.0214.C2
Gene No.	57989	Strand	-

Start	1	End	656
Name	OJ000250_90.0214.C2.ol.ts	Method	TBLASTX:Soybean
Start	206	End	461
GI	none	Score	58
Exons	206..262, 207..278, 257..460, 270..461		
Seq. No.	28183	Seq. ID	OJ000250_90.0214.C2
Gene No.	57989	Strand	-
Start	1	End	656
Name	OJ000250_90.0214.C2.ol.tc	Method	TBLASTX:Cress
Start	296	End	539
GI	none	Score	88
Exons	296..460, 297..461, 480..539, 490..537		
Seq. No.	28184	Seq. ID	OJ000250_90.0214.C5
Gene No.	57990	Strand	+
Start	173	End	3049
Name	OJ000250_90.0214.C5.ol.gs	Method	GENSCAN
Start	173	End	3049
GI	none	Score	.43
Exons	173..221, 446..630, 1068..1094, 1223..1245, 2974..3049		
Seq. No.	28184	Seq. ID	OJ000250_90.0214.C5
Gene No.	57991	Strand	-
Start	3576	End	3976
Name	OJ000250_90.0214.C5.o2.gs	Method	GENSCAN
Start	3576	End	3976
GI	none	Score	.77
Exons	3576..3795, 3894..3976		
Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57992	Strand	+
Start	13	End	706
Name	OJ000250_90.0214.C6.ol.gs	Method	GENSCAN
Start	13	End	706
GI	none	Score	.56
Exons	13..175, 585..706		
Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57993	Strand	+
Start	2598	End	3265
Name	OJ000250_90.0214.C6.ol.np	Method	AAT/NAP
Start	2598	End	3265
GI	6970289	Score	395
Exons	2598..3265		
GI Descrip.	(AC021666) hypothetical protein, 5' partial [Arabidopsis thaliana]		
Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57994	Strand	-
Start	8718	End	9277
Name	OJ000250_90.0214.C6.ol.gp	Method	AAT/GAP
Start	8718	End	9277
GI	2798068	Score	372
Exons	8718..8763, 9126..9277		
Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6

Gene No.	57995	Strand	-
Start	9798	End	11277
Name	OJ000250_90.0214.C6.o3.gs	Method	GENSCAN
Start	9798	End	11261
GI	none	Score	.71
Exons	9798..9826, 9950..10034, 10114..10191, 10527..10643, 10959..11261		

Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57995	Strand	-
Start	9798	End	11277
Name	OJ000250_90.0214.C6.o2.np	Method	AAT/NAP
Start	10938	End	11277
GI	2245007	Score	183
Exons	10938..11277		
GI Descrip.	(Z97341) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57996	Strand	-
Start	13600	End	13863
Name	OJ000250_90.0214.C6.o1.tw	Method	TBLASTX:Wheat
Start	2607	End	2885
GI	none	Score	44
Exons	2607..2657, 2660..2884, 2661..2885		

Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57996	Strand	-
Start	13600	End	13863
Name	OJ000250_90.0214.C6.o1.tm	Method	TBLASTX:Maize
Start	2723	End	3080
GI	none	Score	270
Exons	2723..3079, 2724..2969, 2739..3080, 3012..3080		

Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57996	Strand	-
Start	13600	End	13863
Name	OJ000250_90.0214.C6.o3.tm	Method	TBLASTX:Maize
Start	8483	End	9215
GI	none	Score	44
Exons	8483..8536, 8485..8529, 8556..8768, 8620..8763, 9106..9180, 9123..9215, 9126..9215		

Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57996	Strand	-
Start	13600	End	13863
Name	OJ000250_90.0214.C6.o1.tc	Method	TBLASTX:Cress
Start	8626	End	9215
GI	none	Score	77
Exons	8626..8763, 8629..8763, 8645..8770, 8697..8768, 9123..9215		

Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57996	Strand	-
Start	13600	End	13863
Name	OJ000250_90.0214.C6.o2.tm	Method	TBLASTX:Maize
Start	10136	End	11270
GI	none	Score	75
Exons	10136..10192, 10138..10191, 10932..11135, 10950..11102,		

11139..11240, 11140..11169, 11175..11270

Seq. No.	28185	Seq. ID	OJ000250_90.0214.C6
Gene No.	57996	Strand	-
Start	13600	End	13863
Name	OJ000250_90.0214.C6.o4.gs	Method	GENSCAN
Start	13600	End	13863
GI	none	Score	.41
Exons	13600..13863		

Seq. No.	28186	Seq. ID	OJ000250_90.0214.C7
Gene No.	57997	Strand	+
Start	275	End	839
Name	OJ000250_90.0214.C7.o1.gs	Method	GENSCAN
Start	275	End	839
GI	none	Score	.8
Exons	275..434, 496..596, 633..839		

Seq. No.	28186	Seq. ID	OJ000250_90.0214.C7
Gene No.	57998	Strand	-
Start	1	End	1567
Name	OJ000250_90.0214.C7.o1.np	Method	AAT/NAP
Start	1	End	1567
GI	6063557	Score	295
Exons	1..61, 310..510, 1490..1567		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	28187	Seq. ID	OJ000250_90.0214.C8
Gene No.	57999	Strand	+
Start	166	End	1303
Name	OJ000250_90.0214.C8.o1.gs	Method	GENSCAN
Start	166	End	1303
GI	none	Score	.72
Exons	166..194, 775..955, 978..1124, 1129..1303		

Seq. No.	28187	Seq. ID	OJ000250_90.0214.C8
Gene No.	58000	Strand	-
Start	605	End	1322
Name	OJ000250_90.0214.C8.o1.gp	Method	AAT/GAP
Start	605	End	1322
GI	64147_1.R1084	Score	1395
Exons	605..1322		
GI Descrip.	'4240033/dbj BAA74803.1  6.0e-32 (AB018587) ZmGR1a [Zea mays]'		

Seq. No.	28187	Seq. ID	OJ000250_90.0214.C8
Gene No.	58000	Strand	-
Start	605	End	1322
Name	OJ000250_90.0214.C8.o1.tm	Method	TBLASTX:Maize
Start	845	End	1209
GI	none	Score	120
Exons	845..979, 845..979, 981..1118, 982..1107, 1174..1209, 1177..1209		

Seq. No.	28187	Seq. ID	OJ000250_90.0214.C8
Gene No.	58000	Strand	-
Start	605	End	1322
Name	OJ000250_90.0214.C8.o1.tw	Method	TBLASTX:Wheat
Start	860	End	1112



GI	none	Score	75
Exons	860..979, 869..979, 981..1112, 988..1104		
Seq. No.	28187	Seq. ID	OJ000250_90.0214.C8
Gene No.	58000	Strand	-
Start	605	End	1322
Name	OJ000250_90.0214.C8.o1.tc	Method	TBLASTX:Cress
Start	863	End	1115
GI	none	Score	86
Exons	863..979, 876..977, 981..1115, 982..1101		
Seq. No.	28187	Seq. ID	OJ000250_90.0214.C8
Gene No.	58000	Strand	-
Start	605	End	1322
Name	OJ000250_90.0214.C8.o1.np	Method	AAT/NAP
Start	866	End	1250
GI	4240033	Score	391
Exons	866..1250		
GI Descrip.	(AB018587) ZmGR1a [Zea mays]		
Seq. No.	28187	Seq. ID	OJ000250_90.0214.C8
Gene No.	58000	Strand	-
Start	605	End	1322
Name	OJ000250_90.0214.C8.o1.ts	Method	TBLASTX:Soybean
Start	869	End	1115
GI	none	Score	99
Exons	869..979, 870..977, 981..1115, 985..1098		
Seq. No.	28188	Seq. ID	OJ000250_90.0214.C9
Gene No.	58001	Strand	+
Start	543	End	2638
Name	OJ000250_90.0214.C9.o1.gs	Method	GENSCAN
Start	543	End	2638
GI	none	Score	.49
Exons	543..601, 1553..1690, 2173..2376, 2437..2638		
Seq. No.	28188	Seq. ID	OJ000250_90.0214.C9
Gene No.	58002	Strand	-
Start	1092	End	1203
Name	OJ000250_90.0214.C9.o1.gp	Method	AAT/GAP
Start	1092	End	1203
GI	LIB3477-003-P1-K1-E9	Score	101
Exons	1092..1203		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	28188	Seq. ID	OJ000250_90.0214.C9
Gene No.	58003	Strand	-
Start	3887	End	4133
Name	OJ000250_90.0214.C9.o2.gs	Method	GENSCAN
Start	3887	End	4133
GI	none	Score	.61
Exons	3887..3927, 4007..4133		
Seq. No.	28188	Seq. ID	OJ000250_90.0214.C9
Gene No.	58004	Strand	-

Start	6080	End	6379
Name	OJ000250_90.0214.C9.o2.gp	Method	AAT/GAP
Start	6080	End	6379
GI	587_1.R1084	Score	521
Exons	6080..6379		
GI Descrip.	'1084461/pir  S53012 3.0e-47 RCc3 protein - rice >gi_786132 (L27208) RCc3 [Oryza sativa]'		

Seq. No.	28189	Seq. ID	OJ000250_90.0214.C10
Gene No.	58005	Strand	-
Start	1	End	162
Name	OJ000250_90.0214.C10.o1.gp	Method	AAT/GAP
Start	1	End	162
GI	587_1.R1084	Score	219
Exons	1..162		
GI Descrip.	'1084461/pir  S53012 3.0e-47 RCc3 protein - rice >gi_786132 (L27208) RCc3 [Oryza sativa]'		

Seq. No.	28190	Seq. ID	OJ000250_90.0214.C15
Gene No.	58006	Strand	-
Start	543	End	718
Name	OJ000250_90.0214.C15.o1.np	Method	AAT/NAP
Start	543	End	718
GI	5081541	Score	47
Exons	543..718		
GI Descrip.	'(AF129458) class II DNA photolyase [Chlamydomonas reinhardtii]		

Seq. No.	28191	Seq. ID	OJ000250_90.0214.C17
Gene No.	58007	Strand	-
Start	34	End	680
Name	OJ000250_90.0214.C17.o1.gs	Method	GENSCAN
Start	34	End	674
GI	none	Score	.79
Exons	34..195, 307..358, 449..537, 618..674		

Seq. No.	28191	Seq. ID	OJ000250_90.0214.C17
Gene No.	58007	Strand	-
Start	34	End	680
Name	OJ000250_90.0214.C17.o1.np	Method	AAT/NAP
Start	78	End	680
GI	3023713	Score	280
Exons	78..195, 307..358, 449..537, 618..680		
GI Descrip.	ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) (OSE1) gi 780372 (U09450) enolase [Oryza sativa]		

Seq. No.	28191	Seq. ID	OJ000250_90.0214.C17
Gene No.	58007	Strand	-
Start	34	End	680
Name	OJ000250_90.0214.C17.o1.tm	Method	TBLASTX:Maize
Start	131	End	669
GI	none	Score	94
Exons	131..211, 139..219, 139..204, 306..359, 307..375, 307..360, 449..538, 451..540, 451..540, 615..668, 616..669		

Seq. No.	28191	Seq. ID	OJ000250_90.0214.C17
Gene No.	58007	Strand	-
Start	34	End	680

Name	OJ000250_90.0214.C17.o1.ts	Method	TBLASTX:Soybean
Start	131	End	671
GI	none	Score	88
Exons	131..214, 139..204, 307..360, 449..538, 451..540, 451..540, 615..671, 616..666		
Seq. No.	28191	Seq. ID	OJ000250_90.0214.C17
Gene No.	58007	Strand	-
Start	34	End	680
Name	OJ000250_90.0214.C17.o1.tc	Method	TBLASTX:Cress
Start	137	End	671
GI	none	Score	87
Exons	137..211, 139..204, 307..360, 449..538, 451..540, 454..546, 602..658, 615..671, 616..669		
Seq. No.	28191	Seq. ID	OJ000250_90.0214.C17
Gene No.	58007	Strand	-
Start	34	End	680
Name	OJ000250_90.0214.C17.o1.gp	Method	AAT/GAP
Start	138	End	680
GI	426_1.R1084	Score	398
Exons	138..195, 307..358, 449..537, 618..680		
GI Descrip.	'3023713/sp Q42971 ENO_ORYSA 0.0e+00 ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) (OSE1) >gi_780372 (U09450) enolase [Oryza sativa]'		
Seq. No.	28192	Seq. ID	OJ000250_90.0214.C18
Gene No.	58008	Strand	+
Start	1	End	370
Name	OJ000250_90.0214.C18.o1.np	Method	AAT/NAP
Start	1	End	370
GI	4959167	Score	181
Exons	1..370		
GI Descrip.	(AF084416) calmodulin mutant SYNCAM58C [synthetic construct]		
Seq. No.	28192	Seq. ID	OJ000250_90.0214.C18
Gene No.	58009	Strand	-
Start	49	End	233
Name	OJ000250_90.0214.C18.o1.gs	Method	GENSCAN
Start	49	End	233
GI	none	Score	.7
Exons	49..233		
Seq. No.	28193	Seq. ID	OJ000250_90.0214.C21
Gene No.	58010	Strand	-
Start	99	End	266
Name	OJ000250_90.0214.C21.o1.gs	Method	GENSCAN
Start	99	End	266
GI	none	Score	.77
Exons	99..266		
Seq. No.	28194	Seq. ID	OJ000250_90.0214.C22
Gene No.	58011	Strand	-
Start	552	End	688
Name	OJ000250_90.0214.C22.o1.gs	Method	GENSCAN
Start	552	End	688
GI	none	Score	.57

Exons 552..688

Seq. No.	28195	Seq. ID	OJ000250_90.0214.C24
Gene No.	58012	Strand	+
Start	642	End	711
Name	OJ000250_90.0214.C24.o1.gs	Method	GENSCAN
Start	642	End	711
GI	none	Score	.61
Exons	642..711		

Seq. No.	28196	Seq. ID	OJ000250_90.0214.C28
Gene No.	58013	Strand	-
Start	199	End	623
Name	OJ000250_90.0214.C28.o1.gp	Method	AAT/GAP
Start	199	End	458
GI	3768860	Score	424
Exons	199..458		

Seq. No.	28196	Seq. ID	OJ000250_90.0214.C28
Gene No.	58013	Strand	-
Start	199	End	623
Name	OJ000250_90.0214.C28.o2.gp	Method	AAT/GAP
Start	326	End	623
GI	64147_1.R1084	Score	547
Exons	326..623		
GI Descrip.	'4240033/dbj BAA74803.1  6.0e-32 (AB018587) ZmGR1a [Zea mays]'		

Seq. No.	28196	Seq. ID	OJ000250_90.0214.C28
Gene No.	58013	Strand	-
Start	199	End	623
Name	OJ000250_90.0214.C28.o1.gs	Method	GENSCAN
Start	411	End	582
GI	none	Score	.86
Exons	411..582		

Seq. No.	28197	Seq. ID	OJ000250_90.0214.C29
Gene No.	58014	Strand	-
Start	15	End	404
Name	OJ000250_90.0214.C29.o1.gs	Method	GENSCAN
Start	15	End	404
GI	none	Score	.58
Exons	15..130, 243..298, 351..404		

Seq. No.	28198	Seq. ID	OJ000250_90.0214.C30
Gene No.	58015	Strand	+
Start	70	End	503
Name	OJ000250_90.0214.C30.o1.gs	Method	GENSCAN
Start	70	End	503
GI	none	Score	.41
Exons	70..503		

Seq. No.	28199	Seq. ID	OJ000250_90.0214.C31
Gene No.	58016	Strand	+
Start	352	End	1094
Name	OJ000250_90.0214.C31.o1.gs	Method	GENSCAN
Start	352	End	1094
GI	none	Score	.77

Exons 352..463, 844..1094

Seq. No.	28200	Seq. ID	OJ000250_90.0214.C32
Gene No.	58017	Strand	+
Start	722	End	1292
Name	OJ000250_90.0214.C32.o1.gs	Method	GENSCAN
Start	722	End	1209
GI	none	Score	.83
Exons	722..1209		

Seq. No.	28200	Seq. ID	OJ000250_90.0214.C32
Gene No.	58017	Strand	+
Start	722	End	1292
Name	OJ000250_90.0214.C32.o1.np	Method	AAT/NAP
Start	722	End	1292
GI	5803259	Score	989
Exons	722..1292		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	28201	Seq. ID	OJ000250_90.0214.C33
Gene No.	58018	Strand	+
Start	1	End	1241
Name	OJ000250_90.0214.C33.o1.np	Method	AAT/NAP
Start	1	End	1241
GI	5803259	Score	1674
Exons	1..55, 151..334, 377..1241		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	28201	Seq. ID	OJ000250_90.0214.C33
Gene No.	58018	Strand	+
Start	1	End	1241
Name	OJ000250_90.0214.C33.o1.gs	Method	GENSCAN
Start	151	End	1219
GI	none	Score	.73
Exons	151..1219		

Seq. No.	28202	Seq. ID	OJ000250_90.0214.C34
Gene No.	58019	Strand	-
Start	1	End	149
Name	OJ000250_90.0214.C34.o1.gp	Method	AAT/GAP
Start	1	End	149
GI	2428323	Score	258
Exons	1..149		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	28202	Seq. ID	OJ000250_90.0214.C34
Gene No.	58020	Strand	-
Start	309	End	1947
Name	OJ000250_90.0214.C34.o2.tm	Method	TBLASTX:Maize
Start	291	End	452
GI	none	Score	117
Exons	291..452, 313..447		

Seq. No.	28202	Seq. ID	OJ000250_90.0214.C34
Gene No.	58020	Strand	-
Start	309	End	1947

Name	OJ000250_90.0214.C34.o1.gs	Method	GENSCAN
Start	309	End	1888
GI	none	Score	.92
Exons	309..1888		

Seq. No.	28202	Seq. ID	OJ000250_90.0214.C34
Gene No.	58020	Strand	-
Start	309	End	1947
Name	OJ000250_90.0214.C34.o1.np	Method	AAT/NAP
Start	312	End	1947
GI	6498441	Score	2536
Exons	312..593, 687..1947		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	28202	Seq. ID	OJ000250_90.0214.C34
Gene No.	58020	Strand	-
Start	309	End	1947
Name	OJ000250_90.0214.C34.o2.tw	Method	TBLASTX:Wheat
Start	321	End	923
GI	none	Score	81
Exons	321..446, 325..447, 639..923, 640..783, 820..918, 848..919		

Seq. No.	28202	Seq. ID	OJ000250_90.0214.C34
Gene No.	58020	Strand	-
Start	309	End	1947
Name	OJ000250_90.0214.C34.o1.tw	Method	TBLASTX:Wheat
Start	924	End	1305
GI	none	Score	169
Exons	924..1304, 955..1203, 963..1208, 1249..1305		

Seq. No.	28202	Seq. ID	OJ000250_90.0214.C34
Gene No.	58020	Strand	-
Start	309	End	1947
Name	OJ000250_90.0214.C34.o1.tm	Method	TBLASTX:Maize
Start	1080	End	1442
GI	none	Score	204
Exons	1080..1127, 1119..1442, 1132..1413		

Seq. No.	28202	Seq. ID	OJ000250_90.0214.C34
Gene No.	58020	Strand	-
Start	309	End	1947
Name	OJ000250_90.0214.C34.o3.tw	Method	TBLASTX:Wheat
Start	1635	End	1926
GI	none	Score	57
Exons	1635..1925, 1771..1926		

Seq. No.	28203	Seq. ID	OJ000250_90.0214.C35
Gene No.	58021	Strand	-
Start	1	End	2707
Name	OJ000250_90.0214.C35.o1.np	Method	AAT/NAP
Start	1	End	2529
GI	6498441	Score	2956
Exons	1..50, 234..607, 671..1134, 1465..2529		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type		

## retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	28203	Seq. ID	OJ000250_90.0214.C35
Gene No.	58021	Strand	-
Start	1	End	2707
Name	OJ000250_90.0214.C35.o2.np	Method	AAT/NAP
Start	1	End	2707
GI	5042454	Score	1609
Exons	1..32, 1272..1372, 1639..2707		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	28203	Seq. ID	OJ000250_90.0214.C35
Gene No.	58021	Strand	-
Start	1	End	2707
Name	OJ000250_90.0214.C35.o1.tm	Method	TBLASTX:Maize
Start	113	End	469
GI	none	Score	125
Exons	113..418, 113..469, 123..434		

Seq. No.	28203	Seq. ID	OJ000250_90.0214.C35
Gene No.	58021	Strand	-
Start	1	End	2707
Name	OJ000250_90.0214.C35.o1.tw	Method	TBLASTX:Wheat
Start	137	End	600
GI	none	Score	229
Exons	137..598, 143..598, 144..599, 157..600		

Seq. No.	28203	Seq. ID	OJ000250_90.0214.C35
Gene No.	58021	Strand	-
Start	1	End	2707
Name	OJ000250_90.0214.C35.o1.ts	Method	TBLASTX:Soybean
Start	194	End	559
GI	none	Score	117
Exons	194..328, 335..559		

Seq. No.	28203	Seq. ID	OJ000250_90.0214.C35
Gene No.	58021	Strand	-
Start	1	End	2707
Name	OJ000250_90.0214.C35.o2.tw	Method	TBLASTX:Wheat
Start	791	End	1250
GI	none	Score	73
Exons	791..985, 791..1249, 795..1055, 1077..1250		

Seq. No.	28203	Seq. ID	OJ000250_90.0214.C35
Gene No.	58021	Strand	-
Start	1	End	2707
Name	OJ000250_90.0214.C35.o3.tw	Method	TBLASTX:Wheat
Start	1988	End	2540
GI	none	Score	96
Exons	1988..2245, 2022..2261, 2228..2326, 2229..2321, 2333..2380, 2505..2540		

Seq. No.	28203	Seq. ID	OJ000250_90.0214.C35
Gene No.	58021	Strand	-
Start	1	End	2707
Name	OJ000250_90.0214.C35.o2.tm	Method	TBLASTX:Maize
Start	2090	End	2374

GI	none	Score	60
Exons	2090..2338, 2102..2374		
Seq. No.	28204	Seq. ID	OJ000250_90.0214.C38
Gene No.	58022	Strand	+
Start	360	End	689
Name	OJ000250_90.0214.C38.o1.np	Method	AAT/NAP
Start	360	End	689
GI	5852182	Score	346
Exons	360..689		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	28204	Seq. ID	OJ000250_90.0214.C38
Gene No.	58023	Strand	-
Start	309	End	524
Name	OJ000250_90.0214.C38.o1.gs	Method	GENSCAN
Start	309	End	524
GI	none	Score	.52
Exons	309..524		

Seq. No.	28205	Seq. ID	OJ000250_90.0214.C41
Gene No.	58024	Strand	-
Start	1	End	725
Name	OJ000250_90.0214.C41.o1.np	Method	AAT/NAP
Start	1	End	725
GI	4234854	Score	575
Exons	1..725		
GI Descrip.	(AF082134) pol polyprotein [Zea mays]		

Seq. No.	28205	Seq. ID	OJ000250_90.0214.C41
Gene No.	58024	Strand	-
Start	1	End	725
Name	OJ000250_90.0214.C41.o1.tm	Method	TBLASTX:Maize
Start	3	End	232
GI	none	Score	87
Exons	3..224, 11..232		

Seq. No.	28205	Seq. ID	OJ000250_90.0214.C41
Gene No.	58024	Strand	-
Start	1	End	725
Name	OJ000250_90.0214.C41.o1.ts	Method	TBLASTX:Soybean
Start	11	End	232
GI	5509260	Score	93
Exons	11..232, 27..224		
GI Descrip.	-		

Seq. No.	28205	Seq. ID	OJ000250_90.0214.C41
Gene No.	58024	Strand	-
Start	1	End	725
Name	OJ000250_90.0214.C41.o1.tw	Method	TBLASTX:Wheat
Start	14	End	281
GI	none	Score	114
Exons	14..280, 15..281		

Seq. No.	28205	Seq. ID	OJ000250_90.0214.C41
Gene No.	58024	Strand	-
Start	1	End	725



Name	OJ000250_90.0214.C41.o1.gs	Method	GENSCAN
Start	146	End	632
GI	none	Score	.7
Exons	146..632		
Seq. No.	28206	Seq. ID	OJ000250_90.0214.C42
Gene No.	58025	Strand	-
Start	241	End	288
Name	OJ000250_90.0214.C42.o1.gs	Method	GENSCAN
Start	241	End	288
GI	none	Score	.95
Exons	241..288		
Seq. No.	28207	Seq. ID	OJ000250_90.0214.C43
Gene No.	58026	Strand	-
Start	1	End	426
Name	OJ000250_90.0214.C43.o1.np	Method	AAT/NAP
Start	1	End	426
GI	5915832	Score	428
Exons	1..426		
GI Descrip.	CYTOCHROME P450 76C2 gi 2979549 gb AAC06158.1  (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		
Seq. No.	28207	Seq. ID	OJ000250_90.0214.C43
Gene No.	58026	Strand	-
Start	1	End	426
Name	OJ000250_90.0214.C43.o1.tc	Method	TBLASTX:Cress
Start	1	End	425
GI	none	Score	310
Exons	1..417, 3..425, 201..425		
Seq. No.	28207	Seq. ID	OJ000250_90.0214.C43
Gene No.	58026	Strand	-
Start	1	End	426
Name	OJ000250_90.0214.C43.o1.tm	Method	TBLASTX:Maize
Start	3	End	418
GI	none	Score	56
Exons	3..50, 4..48, 54..416, 55..417, 209..418		
Seq. No.	28207	Seq. ID	OJ000250_90.0214.C43
Gene No.	58026	Strand	-
Start	1	End	426
Name	OJ000250_90.0214.C43.o1.ts	Method	TBLASTX:Soybean
Start	3	End	425
GI	none	Score	228
Exons	3..425, 4..405		
Seq. No.	28207	Seq. ID	OJ000250_90.0214.C43
Gene No.	58026	Strand	-
Start	1	End	426
Name	OJ000250_90.0214.C43.o1.gs	Method	GENSCAN
Start	32	End	365
GI	none	Score	.72
Exons	32..365		
Seq. No.	28207	Seq. ID	OJ000250_90.0214.C43
Gene No.	58026	Strand	-

Start	1	End	426
Name	OJ000250_90.0214.C43.ol.tw	Method	TBLASTX:Wheat
Start	108	End	417
GI	none	Score	67
Exons	108..416, 117..257, 313..417		

Seq. No.	28208	Seq. ID	OJ000250_90.0214.C44
Gene No.	58027	Strand	-
Start	1	End	316
Name	OJ000250_90.0214.C44.ol.np	Method	AAT/NAP
Start	1	End	312
GI	3929333	Score	224
Exons	1..312		
GI Descrip.	CYTOCHROME P450 76B1 (7-ETHOXYCOUMARIN O-DEETHYLASE) (ECOD) (PHENYLUREA DEALKYLASE) gi 2370230 emb CAA71054  (Y09920) 7-ethoxycoumarin O-deethylase [Helianthus tuberosus]		

Seq. No.	28208	Seq. ID	OJ000250_90.0214.C44
Gene No.	58027	Strand	-
Start	1	End	316
Name	OJ000250_90.0214.C44.ol.tm	Method	TBLASTX:Maize
Start	1	End	316
GI	none	Score	229
Exons	1..177, 2..202, 55..228, 287..316		

Seq. No.	28208	Seq. ID	OJ000250_90.0214.C44
Gene No.	58027	Strand	-
Start	1	End	316
Name	OJ000250_90.0214.C44.ol.gs	Method	GENSCAN
Start	9	End	193
GI	none	Score	.41
Exons	9..193		

Seq. No.	28208	Seq. ID	OJ000250_90.0214.C44
Gene No.	58027	Strand	-
Start	1	End	316
Name	OJ000250_90.0214.C44.ol.ts	Method	TBLASTX:Soybean
Start	16	End	202
GI	none	Score	107
Exons	16..177, 17..202		

Seq. No.	28208	Seq. ID	OJ000250_90.0214.C44
Gene No.	58027	Strand	-
Start	1	End	316
Name	OJ000250_90.0214.C44.ol.tw	Method	TBLASTX:Wheat
Start	16	End	213
GI	none	Score	168
Exons	16..174, 17..205, 118..213		

Seq. No.	28209	Seq. ID	OJ000250_90.0214.C45
Gene No.	58028	Strand	-
Start	1	End	603
Name	OJ000250_90.0214.C45.ol.gp	Method	AAT/GAP
Start	1	End	516
GI	426_2.R1084	Score	387
Exons	1..58, 286..360, 436..516		
GI Descrip.	'2661039 5.0e-49 (AF035286) alpha enolase [Homo sapiens]'		

Seq. No.	28209	Seq. ID	OJ000250_90.0214.C45
Gene No.	58028	Strand	-
Start	1	End	603
Name	OJ000250_90.0214.C45.o1.tc	Method	TBLASTX:Cress
Start	1	End	530
GI	none	Score	79
Exons	1..60, 2..64, 3..59, 254..361, 284..361, 286..366, 415..522, 437..520, 438..521, 453..530		
Seq. No.	28209	Seq. ID	OJ000250_90.0214.C45
Gene No.	58028	Strand	-
Start	1	End	603
Name	OJ000250_90.0214.C45.o1.np	Method	AAT/NAP
Start	1	End	603
GI	3023713	Score	285
Exons	1..58, 286..360, 436..525, 582..603		
GI Descrip.	ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) (OSE1) gi 780372 (U09450) enolase [Oryza sativa]		
Seq. No.	28209	Seq. ID	OJ000250_90.0214.C45
Gene No.	58028	Strand	-
Start	1	End	603
Name	OJ000250_90.0214.C45.o1.tm	Method	TBLASTX:Maize
Start	1	End	530
GI	none	Score	87
Exons	1..60, 2..64, 3..59, 284..361, 286..366, 290..361, 415..522, 437..520, 453..530		
Seq. No.	28209	Seq. ID	OJ000250_90.0214.C45
Gene No.	58028	Strand	-
Start	1	End	603
Name	OJ000250_90.0214.C45.o1.ts	Method	TBLASTX:Soybean
Start	2	End	522
GI	none	Score	85
Exons	2..64, 266..355, 286..366, 415..522, 452..520		
Seq. No.	28209	Seq. ID	OJ000250_90.0214.C45
Gene No.	58028	Strand	-
Start	1	End	603
Name	OJ000250_90.0214.C45.o1.gs	Method	GENSCAN
Start	286	End	516
GI	none	Score	.83
Exons	286..360, 436..516		
Seq. No.	28210	Seq. ID	OJ000250_90.0214.C47
Gene No.	58029	Strand	-
Start	258	End	552
Name	OJ000250_90.0214.C47.o1.np	Method	AAT/NAP
Start	180	End	552
GI	4680179	Score	497
Exons	180..552		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	28210	Seq. ID	OJ000250_90.0214.C47
Gene No.	58029	Strand	-
Start	258	End	552

Name	OJ000250_90.0214.C47.o1.tw	Method	TBLASTX:Wheat
Start	225	End	551
GI	none	Score	67
Exons	225..551, 276..407, 277..543, 441..545		
Seq. No.	28210	Seq. ID	OJ000250_90.0214.C47
Gene No.	58029	Strand	-
Start	258	End	552
Name	OJ000250_90.0214.C47.o1.gs	Method	GENSCAN
Start	258	End	434
GI	none	Score	.68
Exons	258..434		
Seq. No.	28210	Seq. ID	OJ000250_90.0214.C47
Gene No.	58029	Strand	-
Start	258	End	552
Name	OJ000250_90.0214.C47.o1.tm	Method	TBLASTX:Maize
Start	276	End	509
GI	none	Score	104
Exons	276..509, 325..471, 420..479		
Seq. No.	28211	Seq. ID	OJ000250_90.0214.C48
Gene No.	58030	Strand	-
Start	1	End	885
Name	OJ000250_90.0214.C48.o1.np	Method	AAT/NAP
Start	1	End	885
GI	4680179	Score	1264
Exons	1..885		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	28211	Seq. ID	OJ000250_90.0214.C48
Gene No.	58030	Strand	-
Start	1	End	885
Name	OJ000250_90.0214.C48.o1.tm	Method	TBLASTX:Maize
Start	22	End	279
GI	none	Score	247
Exons	22..276, 41..274, 55..279		
Seq. No.	28211	Seq. ID	OJ000250_90.0214.C48
Gene No.	58030	Strand	-
Start	1	End	885
Name	OJ000250_90.0214.C48.o1.ts	Method	TBLASTX:Soybean
Start	40	End	300
GI	none	Score	187
Exons	40..300, 41..289, 76..297		
Seq. No.	28211	Seq. ID	OJ000250_90.0214.C48
Gene No.	58030	Strand	-
Start	1	End	885
Name	OJ000250_90.0214.C48.o1.tc	Method	TBLASTX:Cress
Start	64	End	390
GI	none	Score	87
Exons	64..207, 65..205, 208..390		
Seq. No.	28211	Seq. ID	OJ000250_90.0214.C48
Gene No.	58030	Strand	-
Start	1	End	885

Name	OJ000250_90.0214.C48.o1.tw	Method	TBLASTX:Wheat
Start	87	End	627
GI	none	Score	122
Exons	87..341, 88..369, 88..627, 92..445		
Seq. No.	28211	Seq. ID	OJ000250_90.0214.C48
Gene No.	58030	Strand	-
Start	1	End	885
Name	OJ000250_90.0214.C48.o2.tm	Method	TBLASTX:Maize
Start	655	End	880
GI	none	Score	43
Exons	655..879, 662..694, 740..880		
Seq. No.	28211	Seq. ID	OJ000250_90.0214.C48
Gene No.	58030	Strand	-
Start	1	End	885
Name	OJ000250_90.0214.C48.o2.tw	Method	TBLASTX:Wheat
Start	655	End	880
GI	none	Score	134
Exons	655..867, 655..879, 662..880		
Seq. No.	28212	Seq. ID	OJ000250_90.0214.C49
Gene No.	58031	Strand	-
Start	1	End	369
Name	OJ000250_90.0214.C49.o1.np	Method	AAT/NAP
Start	1	End	369
GI	4680179	Score	248
Exons	1..369		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	28212	Seq. ID	OJ000250_90.0214.C49
Gene No.	58031	Strand	-
Start	1	End	369
Name	OJ000250_90.0214.C49.o1.gs	Method	GENSCAN
Start	74	End	321
GI	none	Score	.71
Exons	74..145, 186..321		
Seq. No.	28213	Seq. ID	OJ000250_90.0214.C51
Gene No.	58032	Strand	+
Start	149	End	564
Name	OJ000250_90.0214.C51.o1.gs	Method	GENSCAN
Start	149	End	564
GI	none	Score	.64
Exons	149..296, 329..564		
Seq. No.	28214	Seq. ID	OJ000250_90.0214.C52
Gene No.	58033	Strand	+
Start	1	End	660
Name	OJ000250_90.0214.C52.o1.np	Method	AAT/NAP
Start	1	End	660
GI	6815052	Score	299
Exons	1..22, 299..660		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		
Seq. No.	28215	Seq. ID	OJ000250_90.0214.C54
Gene No.	58034	Strand	+

Start	79	End	173
Name	OJ000250_90.0214.C54.ol.gs	Method	GENSCAN
Start	79	End	173
GI	none	Score	.48
Exons	79..173		

Seq. No.	28216	Seq. ID	OJ000250_90.0214.C55
Gene No.	58035	Strand	+
Start	1	End	976
Name	OJ000250_90.0214.C55.ol.np	Method	AAT/NAP
Start	1	End	976
GI	2979554	Score	370
Exons	1..460, 775..976		
GI Descrip.	(AC003680) unknown protein [Arabidopsis thaliana]		

Seq. No.	28217	Seq. ID	OJ000250_90.0214.C57
Gene No.	58036	Strand	-
Start	479	End	904
Name	OJ000250_90.0214.C57.ol.gs	Method	GENSCAN
Start	479	End	612
GI	none	Score	.79
Exons	479..612		

Seq. No.	28217	Seq. ID	OJ000250_90.0214.C57
Gene No.	58036	Strand	-
Start	479	End	904
Name	OJ000250_90.0214.C57.ol.np	Method	AAT/NAP
Start	482	End	904
GI	5922620	Score	183
Exons	482..904		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	28218	Seq. ID	OJ000250_90.0214.C59
Gene No.	58037	Strand	-
Start	567	End	610
Name	OJ000250_90.0214.C59.ol.gs	Method	GENSCAN
Start	567	End	610
GI	none	Score	.48
Exons	567..610		

Seq. No.	28219	Seq. ID	OJ000250_90.0214.C60
Gene No.	58038	Strand	+
Start	1	End	418
Name	OJ000250_90.0214.C60.ol.np	Method	AAT/NAP
Start	1	End	418
GI	99592	Score	171
Exons	1..418		
GI Descrip.	stilbene synthase (EC 2.3.1.-) - grape		

Seq. No.	28219	Seq. ID	OJ000250_90.0214.C60
Gene No.	58038	Strand	+
Start	1	End	418
Name	OJ000250_90.0214.C60.ol.tc	Method	TBLASTX:Cress

Start	28	End	298
GI	none	Score	63
Exons	28..108, 122..298, 124..252		
Seq. No.	28219	Seq. ID	OJ000250_90.0214.C60
Gene No.	58038	Strand	+
Start	1	End	418
Name	OJ000250_90.0214.C60.ol.tm	Method	TBLASTX:Maize
Start	28	End	301
GI	none	Score	66
Exons	28..108, 28..108, 122..298, 122..301		
Seq. No.	28219	Seq. ID	OJ000250_90.0214.C60
Gene No.	58038	Strand	+
Start	1	End	418
Name	OJ000250_90.0214.C60.ol.ts	Method	TBLASTX:Soybean
Start	28	End	310
GI	none	Score	70
Exons	28..108, 122..310, 122..286		
Seq. No.	28220	Seq. ID	OJ000250_90.0214.C61
Gene No.	58039	Strand	-
Start	1	End	743
Name	OJ000250_90.0214.C61.ol.np	Method	AAT/NAP
Start	1	End	743
GI	4234846	Score	411
Exons	1..743		
GI Descrip.	(AF082130) gag-pol polyprotein [Zea mays]		
Seq. No.	28220	Seq. ID	OJ000250_90.0214.C61
Gene No.	58039	Strand	-
Start	1	End	743
Name	OJ000250_90.0214.C61.ol.tm	Method	TBLASTX:Maize
Start	134	End	743
GI	none	Score	75
Exons	134..214, 153..215, 321..395, 501..743, 502..741, 534..743.		
Seq. No.	28220	Seq. ID	OJ000250_90.0214.C61
Gene No.	58039	Strand	-
Start	1	End	743
Name	OJ000250_90.0214.C61.ol.gs	Method	GENSCAN
Start	320	End	710
GI	none	Score	.86
Exons	320..710		
Seq. No.	28221	Seq. ID	OJ000250_90.0214.C62
Gene No.	58040	Strand	-
Start	1	End	417
Name	OJ000250_90.0214.C62.ol.np	Method	AAT/NAP
Start	1	End	417
GI	6498441	Score	219
Exons	1..188, 282..417		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	28221	Seq. ID	OJ000250_90.0214.C62

Gene No.	58040	Strand	-
Start	1	End	417
Name	OJ000250_90.0214.C62.o1.gs	Method	GENSCAN
Start	71	End	373
GI	none	Score	.89
Exons	71..373		

Seq. No.	28222	Seq. ID	OJ000250_90.0214.C63
Gene No.	58041	Strand	+
Start	1	End	1149
Name	OJ000250_90.0214.C63.o1.gp	Method	AAT/GAP
Start	1	End	1149
GI	869_1.R1084	Score	2205
Exons	1..1149		
GI Descrip.	'4056615 1.0e-149 (AF067401) Sc11 protein [Oryza sativa]'		

Seq. No.	28222	Seq. ID	OJ000250_90.0214.C63
Gene No.	58041	Strand	+
Start	1	End	1149
Name	OJ000250_90.0214.C63.o1.np	Method	AAT/NAP
Start	10	End	795
GI	4056615	Score	1285
Exons	10..795		
GI Descrip.	(AF067401) Sc11 protein [Oryza sativa]		

Seq. No.	28222	Seq. ID	OJ000250_90.0214.C63
Gene No.	58041	Strand	+
Start	1	End	1149
Name	OJ000250_90.0214.C63.o1.gs	Method	GENSCAN
Start	22	End	798
GI	none	Score	.95
Exons	22..798		

Seq. No.	28222	Seq. ID	OJ000250_90.0214.C63
Gene No.	58042	Strand	-
Start	3941	End	4903
Name	OJ000250_90.0214.C63.o1.tm	Method	TBLASTX:Maize
Start	1	End	1078
GI	none	Score	190
Exons	1..123, 2..109, 3..155, 129..806, 130..807, 805..891, 818..901, 820..891, 910..957, 915..956, 998..1027, 1055..1078		

Seq. No.	28222	Seq. ID	OJ000250_90.0214.C63
Gene No.	58042	Strand	-
Start	3941	End	4903
Name	OJ000250_90.0214.C63.o1.ts	Method	TBLASTX:Soybean
Start	33	End	801
GI	none	Score	114
Exons	33..101, 37..117, 358..603, 364..606, 598..801, 636..794		

Seq. No.	28222	Seq. ID	OJ000250_90.0214.C63
Gene No.	58042	Strand	-
Start	3941	End	4903
Name	OJ000250_90.0214.C63.o1.tc	Method	TBLASTX:Cress
Start	538	End	801
GI	none	Score	46
Exons	538..594, 538..633, 598..801, 612..794		



Seq. No.	28222	Seq. ID	OJ000250_90.0214.C63
Gene No.	58042	Strand	-
Start	3941	End	4903
Name	OJ000250_90.0214.C63.o2.gs	Method	GENSCAN
Start	3941	End	4903
GI	none	Score	.64
Exons	3941..4388, 4842..4903		

Seq. No.	28223	Seq. ID	OJ000250_90.0214.C64
Gene No.	58043	Strand	+
Start	1711	End	2144
Name	OJ000250_90.0214.C64.o1.gp	Method	AAT/GAP
Start	1711	End	2144
GI	none	Score	825
Exons	1711..2144		

Seq. No.	28223	Seq. ID	OJ000250_90.0214.C64
Gene No.	58044	Strand	+
Start	3457	End	4329
Name	OJ000250_90.0214.C64.o1.tm	Method	TBLASTX:Maize
Start	2899	End	4329
GI	none	Score	70
Exons	2899..2982, 2902..2949, 2941..3018, 2990..3109, 3051..3134, 3115..4248, 3160..3462, 3327..4247, 3487..4248, 4276..4329, 4284..4328		

Seq. No.	28223	Seq. ID	OJ000250_90.0214.C64
Gene No.	58044	Strand	+
Start	3457	End	4329
Name	OJ000250_90.0214.C64.o1.ts	Method	TBLASTX:Soybean
Start	3201	End	4248
GI	none	Score	232
Exons	3201..3272, 3202..3510, 3372..3467, 3480..3548, 3484..3564, 3750..3905, 3805..4038, 3814..3990, 4047..4241, 4048..4248		

Seq. No.	28223	Seq. ID	OJ000250_90.0214.C64
Gene No.	58044	Strand	+
Start	3457	End	4329
Name	OJ000250_90.0214.C64.o1.tc	Method	TBLASTX:Cress
Start	3313	End	3714
GI	none	Score	143
Exons	3313..3468, 3336..3455, 3484..3585, 3487..3579, 3586..3714		

Seq. No.	28223	Seq. ID	OJ000250_90.0214.C64
Gene No.	58044	Strand	+
Start	3457	End	4329
Name	OJ000250_90.0214.C64.o1.np	Method	AAT/NAP
Start	3457	End	4242
GI	4056615	Score	1212
Exons	3457..4242		
GI Descrip.	(AF067401) Sc11 protein [Oryza sativa]		

Seq. No.	28223	Seq. ID	OJ000250_90.0214.C64
Gene No.	58044	Strand	+
Start	3457	End	4329
Name	OJ000250_90.0214.C64.o2.tc	Method	TBLASTX:Cress

Start	3985	End	4248
GI	none	Score	52
Exons	3985..4041, 4042..4248, 4059..4241		

  

Seq. No.	28224	Seq. ID	OJ000250_90.0214.C65
Gene No.	58045	Strand	+
Start	904	End	978
Name	OJ000250_90.0214.C65.o1.gs	Method	GENSCAN
Start	904	End	978
GI	none	Score	.42
Exons	904..978		

  

Seq. No.	28224	Seq. ID	OJ000250_90.0214.C65
Gene No.	58046	Strand	-
Start	3017	End	3077
Name	OJ000250_90.0214.C65.o2.gs	Method	GENSCAN
Start	3017	End	3077
GI	none	Score	.76
Exons	3017..3077		

  

Seq. No.	28225	Seq. ID	OJ000250_90.0214.C66
Gene No.	58047	Strand	-
Start	1	End	1740
Name	OJ000250_90.0214.C66.o1.np	Method	AAT/NAP
Start	1	End	1740
GI	5091513	Score	220
Exons	1..33, 1590..1740		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

  

Seq. No.	28226	Seq. ID	OJ000250_90.0214.C67
Gene No.	58048	Strand	+
Start	252	End	850
Name	OJ000250_90.0214.C67.o1.gs	Method	GENSCAN
Start	252	End	850
GI	none	Score	.82
Exons	252..364, 715..850		

  

Seq. No.	28226	Seq. ID	OJ000250_90.0214.C67
Gene No.	58049	Strand	+
Start	2853	End	4794
Name	OJ000250_90.0214.C67.o2.gs	Method	GENSCAN
Start	2853	End	4794
GI	none	Score	.49
Exons	2853..2918, 4630..4794		

  

Seq. No.	28226	Seq. ID	OJ000250_90.0214.C67
Gene No.	58050	Strand	-
Start	5065	End	8078
Name	OJ000250_90.0214.C67.o3.gs	Method	GENSCAN
Start	5065	End	7763
GI	none	Score	.46
Exons	5065..5124, 5503..5810, 6057..6194, 6639..6984, 7695..7763		

  

Seq. No.	28226	Seq. ID	OJ000250_90.0214.C67
Gene No.	58050	Strand	-
Start	5065	End	8078
Name	OJ000250_90.0214.C67.o1.np	Method	AAT/NAP

Start 5248 End 8078  
 GI 2979554 Score 1191  
 Exons 5248..5416, 5503..5561, 5589..6302, 6618..6984, 7505..7618,  
 7695..7796, 8040..8078  
 GI Descrip. (AC003680) unknown protein [Arabidopsis thaliana]

Seq. No. 28226 Seq. ID OJ000250\_90.0214.C67  
 Gene No. 58050 Strand -  
 Start 5065 End 8078  
 Name OJ000250\_90.0214.C67.o1.ts Method TBLASTX:Soybean  
 Start 5750 End 6337  
 GI none Score 190  
 Exons 5750..6001, 5752..5886, 5914..6021, 5947..6027, 6133..6303,  
 6139..6300, 6140..6337

Seq. No. 28226 Seq. ID OJ000250\_90.0214.C67  
 Gene No. 58050 Strand -  
 Start 5065 End 8078  
 Name OJ000250\_90.0214.C67.o1.tm Method TBLASTX:Maize  
 Start 5950 End 7558  
 GI none Score 68  
 Exons 5950..6024, 5951..5998, 6056..6286, 6106..6279, 6108..6290,  
 6112..6312, 6113..6337, 6610..6987, 6610..6990, 6617..6997,  
 7493..7558

Seq. No. 28226 Seq. ID OJ000250\_90.0214.C67  
 Gene No. 58050 Strand -  
 Start 5065 End 8078  
 Name OJ000250\_90.0214.C67.o1.tw Method TBLASTX:Wheat  
 Start 6137 End 6875  
 GI none Score 239  
 Exons 6137..6298, 6139..6312, 6140..6337, 6610..6867, 6615..6746,  
 6617..6868, 6617..6874, 6786..6875

Seq. No. 28226 Seq. ID OJ000250\_90.0214.C67  
 Gene No. 58050 Strand -  
 Start 5065 End 8078  
 Name OJ000250\_90.0214.C67.o2.ts Method TBLASTX:Soybean  
 Start 6688 End 6996  
 GI none Score 182  
 Exons 6688..6996, 6710..6985

Seq. No. 28226 Seq. ID OJ000250\_90.0214.C67  
 Gene No. 58050 Strand -  
 Start 5065 End 8078  
 Name OJ000250\_90.0214.C67.o3.ts Method TBLASTX:Soybean  
 Start 7493 End 7831  
 GI none Score 66  
 Exons 7493..7615, 7501..7614, 7505..7618, 7506..7625, 7684..7797,  
 7692..7805, 7692..7796, 7694..7831

Seq. No. 28227 Seq. ID OJ000250\_90.0214.C68  
 Gene No. 58051 Strand -  
 Start 1 End 5211  
 Name OJ000250\_90.0214.C68.o1.np Method AAT/NAP  
 Start 1 End 5211  
 GI 2979554 Score 1919

Exons 1..50, 414..538, 609..693, 797..946, 1174..1290, 1426..1512, 1592..1660, 1742..1798, 1884..1967, 2062..2131, 2318..2472, 2860..3303, 3504..3647, 3739..4287, 4877..5211

GI Descrip. (AC003680) unknown protein [Arabidopsis thaliana]

Seq. No.	28227	Seq. ID	OJ000250_90.0214.C68
Gene No.	58051	Strand	-
Start	1	End	5211
Name	OJ000250_90.0214.C68.o1.tm	Method	TBLASTX:Maize
Start	414	End	881
GI	none	Score	98
Exons	414..533, 414..536, 415..543, 610..693, 611..694, 794..880, 794..880, 795..881		

Seq. No.	28227	Seq. ID	OJ000250_90.0214.C68
Gene No.	58051	Strand	-
Start	1	End	5211
Name	OJ000250_90.0214.C68.o1.ts	Method	TBLASTX:Soybean
Start	414	End	842
GI	none	Score	97
Exons	414..533, 414..536, 415..534, 610..693, 611..694, 794..841, 795..842		

Seq. No.	28227	Seq. ID	OJ000250_90.0214.C68
Gene No.	58051	Strand	-
Start	1	End	5211
Name	OJ000250_90.0214.C68.o1.gs	Method	GENSCAN
Start	609	End	5071
GI	none	Score	.83
Exons	609..693, 797..946, 1174..1290, 1426..1524, 1884..1967, 2062..2131, 2318..2472, 2860..3303, 3504..3647, 3739..4287, 4877..5071		

Seq. No.	28227	Seq. ID	OJ000250_90.0214.C68
Gene No.	58051	Strand	-
Start	1	End	5211
Name	OJ000250_90.0214.C68.o1.tc	Method	TBLASTX:Cress
Start	1426	End	1973
GI	none	Score	57
Exons	1426..1515, 1433..1513, 1592..1663, 1599..1661, 1736..1819, 1743..1802, 1884..1973, 1888..1953		

Seq. No.	28227	Seq. ID	OJ000250_90.0214.C68
Gene No.	58051	Strand	-
Start	1	End	5211
Name	OJ000250_90.0214.C68.o2.tm	Method	TBLASTX:Maize
Start	1462	End	2393
GI	none	Score	50
Exons	1462..1515, 1475..1519, 1480..1530, 1592..1663, 1599..1661, 1600..1662, 1736..1798, 1743..1799, 1872..1955, 1884..1973, 1885..1959, 2052..2132, 2060..2131, 2065..2133, 2306..2392, 2317..2391, 2319..2393		

Seq. No.	28228	Seq. ID	OJ000250_90.0214.C69
Gene No.	58052	Strand	-
Start	1	End	1868
Name	OJ000250_90.0214.C69.o1.np	Method	AAT/NAP

Start	1	End	1868
GI	2979554	Score	68
Exons	1..61, 439..541, 1794..1868		
GI Descrip.	(AC003680) unknown protein [Arabidopsis thaliana]		

Seq. No.	28229	Seq. ID	OJ000250_90.0214.C70
Gene No.	58053	Strand	-
Start	1	End	8333
Name	OJ000250_90.0214.C70.o1.np	Method	AAT/NAP
Start	1	End	8333
GI	2979554	Score	3449
Exons	1..244, 957..1286, 2053..2134, 2523..2599, 2700..2813, 2955..3059, 3299..3433, 4002..4691, 5277..6064, 6793..8333		
GI Descrip.	(AC003680) unknown protein [Arabidopsis thaliana]		

Seq. No.	28229	Seq. ID	OJ000250_90.0214.C70
Gene No.	58053	Strand	-
Start	1	End	8333
Name	OJ000250_90.0214.C70.o1.gs	Method	GENSCAN
Start	95	End	8170
GI	none	Score	.82
Exons	95..244, 957..1289, 2053..2134, 2523..2599, 2955..3059, 4002..4691, 5277..6064, 6793..8170		

Seq. No.	28229	Seq. ID	OJ000250_90.0214.C70
Gene No.	58053	Strand	-
Start	1	End	8333
Name	OJ000250_90.0214.C70.o1.tm	Method	TBLASTX:Maize
Start	912	End	1269
GI	none	Score	74
Exons	912..998, 950..994, 951..998, 969..1235, 997..1236, 1194..1265, 1240..1269		

Seq. No.	28229	Seq. ID	OJ000250_90.0214.C70
Gene No.	58053	Strand	-
Start	1	End	8333
Name	OJ000250_90.0214.C70.o1.tc	Method	TBLASTX:Cress
Start	933	End	1265
GI	none	Score	289
Exons	933..1241, 940..1236, 942..1265, 986..1264		

Seq. No.	28230	Seq. ID	OJ000250_90.0214.C71
Gene No.	58054	Strand	+
Start	109	End	991
Name	OJ000250_90.0214.C71.o1.np	Method	AAT/NAP
Start	109	End	991
GI	5922623	Score	215
Exons	109..183, 554..716, 884..991		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	28230	Seq. ID	OJ000250_90.0214.C71
Gene No.	58055	Strand	-
Start	106	End	629
Name	OJ000250_90.0214.C71.o1.gs	Method	GENSCAN
Start	106	End	629

GI	none	Score	.62
Exons	106..210, 242..296, 478..629		
Seq. No.	28231	Seq. ID	OJ000250_90.0214.C72
Gene No.	58056	Strand	+
Start	1	End	859
Name	OJ000250_90.0214.C72.o1.np	Method	AAT/NAP
Start	1	End	401
GI	4678353	Score	119
Exons	1..401		
GI Descrip.	(AL049659) cysteine endopeptidase precursor-like protein [Arabidopsis thaliana]		

Seq. No.	28231	Seq. ID	OJ000250_90.0214.C72
Gene No.	58056	Strand	+
Start	1	End	859
Name	OJ000250_90.0214.C72.o1.gs	Method	GENSCAN
Start	111	End	859
GI	none	Score	.44
Exons	111..317, 636..859		

Seq. No.	28231	Seq. ID	OJ000250_90.0214.C72
Gene No.	58057	Strand	-
Start	98	End	227
Name	OJ000250_90.0214.C72.o1.gp	Method	AAT/GAP
Start	98	End	227
GI	39123_1.R1084	Score	148
Exons	98..227		
GI Descrip.	'3378493/emb CAA07567  2.0e-21 (AJ007579) cysteine proteinase [Ribes nigrum]'		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58058	Strand	+
Start	26	End	7855
Name	OJ000250_90.0214.C73.o1.gs	Method	GENSCAN
Start	26	End	7815
GI	none	Score	.43
Exons	26..40, 1206..1303, 1684..1749, 2164..2295, 3247..3353, 3599..3775, 4594..6971, 6985..7144, 7493..7815		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58058	Strand	+
Start	26	End	7855
Name	OJ000250_90.0214.C73.o2.np	Method	AAT/NAP
Start	4193	End	7855
GI	2583130	Score	1683
Exons	4193..7047, 7472..7855		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58059	Strand	-
Start	880	End	1989
Name	OJ000250_90.0214.C73.o1.np	Method	AAT/NAP
Start	880	End	1989
GI	6815053	Score	741
Exons	880..1117, 1167..1343, 1843..1989		

GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58060	Strand	-
Start	7114	End	7361
Name	OJ000250_90.0214.C73.o1.tm	Method	TBLASTX:Maize
Start	5736	End	6659
GI	none	Score	100
Exons	5736..5891, 5883..6200, 6098..6337, 6228..6368, 6438..6659		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58060	Strand	-
Start	7114	End	7361
Name	OJ000250_90.0214.C73.o1.tw	Method	TBLASTX:Wheat
Start	5780	End	6161
GI	none	Score	271
Exons	5780..6001, 5781..5999, 5986..6150, 5987..6160, 5994..6161		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58060	Strand	-
Start	7114	End	7361
Name	OJ000250_90.0214.C73.o2.tw	Method	TBLASTX:Wheat
Start	6332	End	6716
GI	none	Score	409
Exons	6332..6493, 6333..6716, 6336..6686, 6545..6715		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58060	Strand	-
Start	7114	End	7361
Name	OJ000250_90.0214.C73.o1.ts	Method	TBLASTX:Soybean
Start	6399	End	6872
GI	none	Score	117
Exons	6399..6656, 6654..6872		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58060	Strand	-
Start	7114	End	7361
Name	OJ000250_90.0214.C73.o2.tm	Method	TBLASTX:Maize
Start	6666	End	6889
GI	none	Score	204
Exons	6666..6881, 6752..6889		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58060	Strand	-
Start	7114	End	7361
Name	OJ000250_90.0214.C73.o3.tw	Method	TBLASTX:Wheat
Start	6717	End	6938
GI	none	Score	243
Exons	6717..6938, 6722..6919		

Seq. No.	28232	Seq. ID	OJ000250_90.0214.C73
Gene No.	58060	Strand	-
Start	7114	End	7361
Name	OJ000250_90.0214.C73.o1.gp	Method	AAT/GAP
Start	7114	End	7361
GI	3761181	Score	444
Exons	7114..7361		

GI Descrip. 4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA,  
similar sequence to Pib gene

Seq. No.	28233	Seq. ID	OJ000250_90.0214.C74
Gene No.	58061	Strand	-
Start	1	End	2798
Name	OJ000250_90.0214.C74.o1.np	Method	AAT/NAP
Start	1	End	2798
GI	5091513	Score	528
Exons	1..56, 1230..1363, 2196..2257, 2287..2798		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	28233	Seq. ID	OJ000250_90.0214.C74
Gene No.	58061	Strand	-
Start	1	End	2798
Name	OJ000250_90.0214.C74.o1.gs	Method	GENSCAN
Start	1334	End	1489
GI	none	Score	.66
Exons	1334..1489		

Seq. No.	28233	Seq. ID	OJ000250_90.0214.C74
Gene No.	58061	Strand	-
Start	1	End	2798
Name	OJ000250_90.0214.C74.o2.gs	Method	GENSCAN
Start	1849	End	2767
GI	none	Score	.42
Exons	1849..2276, 2440..2767		

Seq. No.	28234	Seq. ID	OJ000250_90.0214.C75
Gene No.	58062	Strand	-
Start	1	End	3044
Name	OJ000250_90.0214.C75.o1.np	Method	AAT/NAP
Start	1	End	3044
GI	5091513	Score	1783
Exons	1..781, 1340..2175, 3027..3044		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58063	Strand	+
Start	109	End	855
Name	OJ000250_90.0214.C76.o1.gs	Method	GENSCAN
Start	109	End	855
GI	none	Score	.61
Exons	109..855		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58064	Strand	-
Start	2218	End	2710
Name	OJ000250_90.0214.C76.o1.gp	Method	AAT/GAP
Start	2218	End	2710
GI	none	Score	970
Exons	2218..2710		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o4.tw	Method	TBLASTX:Wheat



Start 6  
 GI none  
 Exons 6..224, 7..225, 61..225

End 225  
 Score 194

Seq. No. 28235 Seq. ID OJ000250\_90.0214.C76  
 Gene No. 58065 Strand -  
 Start 3907 End 8648  
 Name OJ000250\_90.0214.C76.o3.tm Method TBLASTX:Maize  
 Start 2389 End 4170  
 GI none Score 45  
 Exons 2389..2457, 2405..2446, 2449..2538, 2451..2540, 2451..2540,  
 2616..2771, 2621..2782, 2623..2772, 2624..2779, 3896..4162,  
 3897..4166, 3897..4163, 4123..4170

Seq. No. 28235 Seq. ID OJ000250\_90.0214.C76  
 Gene No. 58065 Strand -  
 Start 3907 End 8648  
 Name OJ000250\_90.0214.C76.o6.tc Method TBLASTX:Cress  
 Start 2618 End 2771  
 GI none Score 62  
 Exons 2618..2758, 2623..2769, 2628..2771

Seq. No. 28235 Seq. ID OJ000250\_90.0214.C76  
 Gene No. 58065 Strand -  
 Start 3907 End 8648  
 Name OJ000250\_90.0214.C76.o2.ts Method TBLASTX:Soybean  
 Start 2628 End 4162  
 GI none Score 146  
 Exons 2628..2786, 2628..2771, 2657..2773, 3894..4010, 3896..4162,  
 3897..4160

Seq. No. 28235 Seq. ID OJ000250\_90.0214.C76  
 Gene No. 58065 Strand -  
 Start 3907 End 8648  
 Name OJ000250\_90.0214.C76.o1.tw Method TBLASTX:Wheat  
 Start 2736 End 4162  
 GI none Score 76  
 Exons 2736..2771, 3894..4013, 3895..3975, 3896..4162, 3897..4160,  
 4097..4162

Seq. No. 28235 Seq. ID OJ000250\_90.0214.C76  
 Gene No. 58065 Strand -  
 Start 3907 End 8648  
 Name OJ000250\_90.0214.C76.o3.tc Method TBLASTX:Cress  
 Start 3896 End 4162  
 GI none Score 77  
 Exons 3896..4030, 3896..4162, 3906..4154, 4091..4159

Seq. No. 28235 Seq. ID OJ000250\_90.0214.C76  
 Gene No. 58065 Strand -  
 Start 3907 End 8648  
 Name OJ000250\_90.0214.C76.o2.np Method AAT/NAP  
 Start 3907 End 8081  
 GI 4544450 Score 822  
 Exons 3907..4021, 4870..5795, 6009..6556, 8005..8081  
 GI Descrip. (AC006592) hypothetical protein [Arabidopsis thaliana]

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o5.tc	Method	TBLASTX:Cress
Start	4881	End	5165
GI	none	Score	122
Exons	4881..5165, 4900..5145		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o3.ts	Method	TBLASTX:Soybean
Start	4893	End	5351
GI	none	Score	117
Exons	4893..5351, 4894..5238, 4902..5351		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o2.tm	Method	TBLASTX:Maize
Start	4900	End	6515
GI	none	Score	229
Exons	4900..5511, 4914..5660, 5262..5444, 5310..5732, 5343..5771, 5565..5732, 5580..5732, 5775..5960, 5919..5966, 5946..6047, 6012..6170, 6016..6273, 6051..6260, 6063..6236, 6195..6488, 6201..6515, 6235..6480, 6255..6434, 6284..6340, 6324..6488		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o4.tc	Method	TBLASTX:Cress
Start	5166	End	6518
GI	none	Score	144
Exons	5166..5765, 5766..5939, 5907..6047, 6066..6356, 6174..6518		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o3.tw	Method	TBLASTX:Wheat
Start	5211	End	6425
GI	none	Score	70
Exons	5211..5687, 5571..5732, 5784..5939, 5785..5940, 6063..6293, 6064..6273, 6180..6425		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o5.ts	Method	TBLASTX:Soybean
Start	5352	End	6548
GI	none	Score	125
Exons	5352..5492, 5412..5732, 6018..6047, 6066..6401, 6324..6548		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o1.ts	Method	TBLASTX:Soybean
Start	7070	End	7939

GI	none	Score	300
Exons	7070..7939, 7074..7709		
Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o3.np	Method	AAT/NAP
Start	7073	End	8648
GI	4539452	Score	1252
Exons	7073..8461, 8576..8648		
GI Descrip.	(AL049500) putative phosphoribosylanthranilate transferase [Arabidopsis thaliana]		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o5.tm	Method	TBLASTX:Maize
Start	7094	End	7307
GI	none	Score	73
Exons	7094..7168, 7094..7129, 7114..7167, 7115..7306, 7116..7307		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o1.tc	Method	TBLASTX:Cress
Start	7160	End	7813
GI	none	Score	100
Exons	7160..7813, 7170..7373, 7473..7709		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o1.tm	Method	TBLASTX:Maize
Start	7307	End	8054
GI	none	Score	243
Exons	7307..8050, 7308..7829, 7676..8041, 7902..8054		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o2.tc	Method	TBLASTX:Cress
Start	7823	End	8443
GI	none	Score	81
Exons	7823..8053, 7868..8038, 8090..8257, 8097..8243, 8339..8443, 8360..8410		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o2.tw	Method	TBLASTX:Wheat
Start	7847	End	8242
GI	none	Score	98
Exons	7847..8053, 7896..8039, 8090..8242, 8097..8234		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648

Name	OJ000250_90.0214.C76.o4.ts	Method	TBLASTX:Soybean
Start	7979	End	8470
GI	none	Score	129
Exons	7979..8053, 8090..8242, 8100..8243, 8327..8470		

Seq. No.	28235	Seq. ID	OJ000250_90.0214.C76
Gene No.	58065	Strand	-
Start	3907	End	8648
Name	OJ000250_90.0214.C76.o4.tm	Method	TBLASTX:Maize
Start	8090	End	8452
GI	none	Score	120
Exons	8090..8281, 8097..8243, 8342..8452		

Seq. No.	28236	Seq. ID	OJ000250_90.0214.C77
Gene No.	58066	Strand	+
Start	891	End	1639
Name	OJ000250_90.0214.C77.o1.np	Method	AAT/NAP
Start	891	End	1639
GI	5803245	Score	87
Exons	891..1171, 1608..1639		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	28236	Seq. ID	OJ000250_90.0214.C77
Gene No.	58067	Strand	-
Start	780	End	1043
Name	OJ000250_90.0214.C77.o1.gs	Method	GENSCAN
Start	780	End	1043
GI	none	Score	.43
Exons	780..1043		

Seq. No.	28237	Seq. ID	OJ000250_90.0214.C78
Gene No.	58068	Strand	+
Start	1	End	1978
Name	OJ000250_90.0214.C78.o1.gp	Method	AAT/GAP
Start	1	End	1948
GI	3527_1.R1084	Score	750
Exons	1..54, 286..362, 1052..1113, 1252..1370, 1781..1948		
GI Descrip.	'2760606/dbj BAA24226  5.0e-78 (AB001568) phospholipid hydroperoxide glutathione peroxidase-like protein [Arabidopsis thaliana] >gi_3004869 (AF030132) glutathione peroxidase; ATGP1 [Arabidopsis thaliana] >gi_4539451_emb_CAB39931.1_ (AL049500) phospholipid hydroperoxide glutathione peroxidase [Arabidopsis thaliana]'		

Seq. No.	28237	Seq. ID	OJ000250_90.0214.C78
Gene No.	58068	Strand	+
Start	1	End	1978
Name	OJ000250_90.0214.C78.o1.np	Method	AAT/NAP
Start	1	End	1978
GI	6179600	Score	584
Exons	1..32, 262..362, 1052..1113, 1252..1370, 1781..1978		
GI Descrip.	(AJ238697) GPX12Hv, glutathione peroxidase-like protein [Hordeum vulgare]		

Seq. No.	28237	Seq. ID	OJ000250_90.0214.C78
Gene No.	58068	Strand	+
Start	1	End	1978

Name	OJ000250_90.0214.C78.ol.tc	Method	TBLASTX:Cress
Start	280	End	1977
GI	none	Score	103
Exons	280..360, 285..362, 1030..1110, 1052..1114, 1053..1115, 1250..1372, 1251..1379, 1251..1376, 1773..1943, 1780..1944, 1780..1977, 1781..1975		

Seq. No.	28237	Seq. ID	OJ000250_90.0214.C78
Gene No.	58068	Strand	+
Start	1	End	1978
Name	OJ000250_90.0214.C78.ol.tm	Method	TBLASTX:Maize
Start	280	End	1948
GI	none	Score	118
Exons	280..360, 283..360, 285..362, 285..362, 1051..1116, 1053..1115, 1250..1372, 1251..1379, 1251..1376, 1773..1943, 1780..1947, 1781..1948		

Seq. No.	28237	Seq. ID	OJ000250_90.0214.C78
Gene No.	58068	Strand	+
Start	1	End	1978
Name	OJ000250_90.0214.C78.ol.ts	Method	TBLASTX:Soybean
Start	280	End	1948
GI	none	Score	89
Exons	280..360, 285..362, 1052..1105, 1053..1106, 1250..1372, 1251..1373, 1251..1373, 1750..1881, 1778..1948, 1780..1947		

Seq. No.	28237	Seq. ID	OJ000250_90.0214.C78
Gene No.	58068	Strand	+
Start	1	End	1978
Name	OJ000250_90.0214.C78.ol.gs	Method	GENSCAN
Start	286	End	1948
GI	none	Score	.88
Exons	286..362, 1052..1113, 1252..1370, 1781..1948		

Seq. No.	28237	Seq. ID	OJ000250_90.0214.C78
Gene No.	58068	Strand	+
Start	1	End	1978
Name	OJ000250_90.0214.C78.ol.tw	Method	TBLASTX:Wheat
Start	1260	End	1948
GI	none	Score	171
Exons	1260..1379, 1262..1372, 1780..1863, 1781..1855, 1864..1947, 1865..1948		

Seq. No.	28238	Seq. ID	OJ000250_90.0214.C79
Gene No.	58069	Strand	+
Start	730	End	1188
Name	OJ000250_90.0214.C79.ol.gs	Method	GENSCAN
Start	730	End	1188
GI	none	Score	1
Exons	730..1188		

Seq. No.	28239	Seq. ID	OJ000250_90.0214.C80
Gene No.	58070	Strand	-
Start	100	End	210
Name	OJ000250_90.0214.C80.ol.gs	Method	GENSCAN
Start	100	End	210
GI	none	Score	.68

Exons 100..210

Seq. No.	28240	Seq. ID	OJ000250_90.0214.C82
Gene No.	58071	Strand	+
Start	1	End	257
Name	OJ000250_90.0214.C82.o1.np	Method	AAT/NAP
Start	1	End	257
GI	4680203	Score	149
Exons	1..257		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58072	Strand	-
Start	1	End	127
Name	OJ000250_96.0228.C1.o1.gp	Method	AAT/GAP
Start	1	End	127
GI	3073_1.R1084	Score	224
Exons	1..127		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_(X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf_1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58073	Strand	-
Start	154	End	517
Name	OJ000250_96.0228.C1.o2.gp	Method	AAT/GAP
Start	154	End	517
GI	5455469	Score	666
Exons	154..517		
GI Descrip.	131251/sp P12094 PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir_FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_(X15901) PSII 32kDa protein [Oryza sativa] >gi_343212_(M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf_1503143A psbA gene [Oryza sativa] >gi_226406_prf_15		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58074	Strand	-
Start	880	End	1333
Name	OJ000250_96.0228.C1.o3.gp	Method	AAT/GAP
Start	880	End	1333
GI	24570_1.R1084	Score	908
Exons	880..1333		
GI Descrip.	'131251/sp P12094 PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir_FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_(X15901) PSII 32kDa protein [Oryza sativa] >gi_343212_(M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf_1503143A psbA gene [Oryza sativa] >gi_226406_prf_15'		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58075	Strand	-
Start	3777	End	4045

Name	OJ000250_96.0228.C1.o4.gp	Method	AAT/GAP
Start	3777	End	4045
GI	40596_1.R1084	Score	450
Exons	3777..4045		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-104 Rice complete chloroplast genome'		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58076	Strand	-
Start	4639	End	5885
Name	OJ000250_96.0228.C1.o5.gp	Method	AAT/GAP
Start	4639	End	5885
GI	uC-osflcyp086a01a1	Score	851
Exons	4639..4829, 5640..5885		
GI Descrip.	'133806/sp P25875 RR16_HORVU 5.0e-37 CHLOROPLAST 30S RIBOSOMAL PROTEIN S16 >gi_282999_pir_S28766 ribosomal protein S16 - barley chloroplast >gi_11603_emb_CAA36973_ (X52765) ribosomal protein rps16 [Hordeum vulgare]'		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o2.tc	Method	TBLASTX:Cress
Start	191	End	559
GI	none	Score	397
Exons	191..559, 209..559		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o7.ts	Method	TBLASTX:Soybean
Start	593	End	9031
GI	none	Score	67
Exons	593..748, 614..748, 775..957, 8966..9031		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o1.tc	Method	TBLASTX:Cress
Start	647	End	1313
GI	none	Score	160
Exons	647..799, 650..769, 767..874, 769..873, 856..1281, 875..1300, 1278..1313		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o1.tm	Method	TBLASTX:Maize
Start	841	End	1337
GI	none	Score	799
Exons	841..1332, 842..1330, 843..1337, 1158..1334		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o1.ts	Method	TBLASTX:Soybean
Start	1022	End	1337

GI	none	Score	429
Exons	1022..1327, 1022..1318, 1024..1326, 1158..1337		
Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o2.ts	Method	TBLASTX:Soybean
Start	1806	End	2176
GI	none	Score	158
Exons	1806..2057, 1810..2055, 2044..2169, 2049..2165, 2051..2176		
Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o2.tw	Method	TBLASTX:Wheat
Start	1867	End	2263
GI	none	Score	545
Exons	1867..2241, 1869..2240, 2236..2262, 2237..2263		
Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o4.tm	Method	TBLASTX:Maize
Start	2095	End	2361
GI	none	Score	358
Exons	2095..2361, 2097..2360		
Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o3.ts	Method	TBLASTX:Soybean
Start	2314	End	2761
GI	none	Score	137
Exons	2314..2499, 2315..2563, 2316..2525, 2455..2574, 2568..2714, 2578..2721, 2612..2755, 2705..2761		
Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o3.tc	Method	TBLASTX:Cress
Start	2489	End	2971
GI	none	Score	35
Exons	2489..2533, 2490..2645, 2491..2652, 2640..2708, 2643..2708, 2650..2709, 2724..2957, 2727..2966, 2779..2970, 2792..2971, 2900..2971		
Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o1.tw	Method	TBLASTX:Wheat
Start	2529	End	2909
GI	none	Score	387
Exons	2529..2909, 2530..2808, 2532..2909		
Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031



Name	OJ000250_96.0228.C1.o5.ts	Method	TBLASTX:Soybean
Start	2784	End	3329
GI	none	Score	97
Exons	2784..2981, 2793..2960, 2798..2974, 2988..3062, 2995..3048, 3051..3164, 3055..3165, 3069..3194, 3198..3329		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o10.tm	Method	TBLASTX:Maize
Start	3388	End	3621
GI	none	Score	50
Exons	3388..3420, 3388..3420, 3389..3421, 3389..3421, 3433..3522, 3440..3529, 3441..3533, 3445..3540, 3516..3542, 3516..3560, 3538..3621, 3540..3614		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o4.tc	Method	TBLASTX:Cress
Start	3517	End	4064
GI	none	Score	49
Exons	3517..3567, 3522..3569, 3529..3570, 3571..3612, 3571..3609, 3572..3616, 3582..3617, 3655..3792, 3701..3793, 3710..3793, 3711..3797, 3717..3809, 3721..3834, 3816..3860, 3885..3926, 3886..3924, 3913..4056, 3915..4064, 3915..4055		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o6.tm	Method	TBLASTX:Maize
Start	3769	End	4029
GI	none	Score	122
Exons	3769..3792, 3771..3797, 3781..3858, 3785..3859, 3789..3884, 3829..4029, 3849..4028		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o9.tm	Method	TBLASTX:Maize
Start	4030	End	4404
GI	none	Score	68
Exons	4030..4071, 4031..4072, 4031..4072, 4032..4073, 4069..4110, 4070..4135, 4124..4162, 4127..4165, 4138..4176, 4149..4226, 4150..4230, 4166..4225, 4224..4268, 4248..4346, 4258..4353, 4259..4354, 4295..4354, 4351..4404		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o4.ts	Method	TBLASTX:Soybean
Start	4633	End	5756
GI	none	Score	251
Exons	4633..4872, 4634..4861, 4657..4863, 4834..4905, 4839..4931, 4843..4941, 5101..5148, 5146..5196, 5154..5195, 5199..5231, 5349..5456, 5350..5457, 5370..5471, 5474..5512, 5476..5514, 5477..5515, 5525..5587, 5534..5587, 5562..5621, 5576..5626,		

5618..5692, 5618..5707, 5732..5752, 5733..5756

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o6.tc	Method	TBLASTX:Cress
Start	4707	End	4895
GI	none	Score	44
Exons	4707..4760, 4708..4887, 4709..4894, 4800..4895		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o3.tm	Method	TBLASTX:Maize
Start	5236	End	5865
GI	none	Score	113
Exons	5236..5331, 5237..5320, 5323..5466, 5343..5510, 5376..5513, 5390..5524, 5486..5764, 5498..5758, 5512..5766, 5754..5786, 5787..5819, 5787..5837, 5788..5820, 5815..5862, 5821..5865		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o6.gp	Method	AAT/GAP
Start	5966	End	6416
GI	uC-osflcyp086a01b1	Score	902
Exons	5966..6416		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-135 Rice complete chloroplast genome'		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o2.tm	Method	TBLASTX:Maize
Start	6936	End	7501
GI	none	Score	198
Exons	6936..7064, 6943..7089, 6944..7093, 7081..7395, 7082..7396, 7087..7395, 7209..7400, 7399..7464, 7400..7462, 7402..7464, 7450..7500, 7450..7500, 7463..7501		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o4.tw	Method	TBLASTX:Wheat
Start	6972	End	7245
GI	none	Score	157
Exons	6972..7064, 6972..7244, 6973..7245		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o6.ts	Method	TBLASTX:Soybean
Start	7114	End	7983
GI	none	Score	279
Exons	7114..7365, 7143..7349, 7717..7845, 7718..7843, 7719..7847, 7888..7983		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o5.tc	Method	TBLASTX:Cress
Start	7140	End	7372
GI	none	Score	237
Exons	7140..7352, 7147..7371, 7154..7372, 7156..7371		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o7.tm	Method	TBLASTX:Maize
Start	7501	End	7710
GI	none	Score	90
Exons	7501..7569, 7502..7573, 7503..7571, 7562..7618, 7572..7637, 7573..7629, 7598..7708, 7603..7710, 7612..7710		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o7.tc	Method	TBLASTX:Cress
Start	7703	End	7983
GI	none	Score	215
Exons	7703..7846, 7716..7859, 7716..7859, 7957..7983, 7957..7983		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o5.tm	Method	TBLASTX:Maize
Start	8055	End	8483
GI	none	Score	84
Exons	8055..8120, 8055..8120, 8056..8121, 8057..8122, 8106..8165, 8107..8163, 8111..8185, 8112..8216, 8191..8220, 8221..8337, 8222..8359, 8239..8361, 8316..8375, 8317..8379, 8317..8379, 8386..8481, 8386..8466, 8388..8483, 8388..8483		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o3.tw	Method	TBLASTX:Wheat
Start	8160	End	8715
GI	none	Score	57
Exons	8160..8219, 8191..8220, 8209..8301, 8214..8300, 8222..8302, 8222..8305, 8276..8347, 8294..8335, 8296..8385, 8296..8346, 8305..8379, 8321..8392, 8384..8509, 8386..8499, 8478..8672, 8496..8636, 8525..8647, 8596..8682, 8641..8715, 8642..8710		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o8.tm	Method	TBLASTX:Maize
Start	8485	End	8725
GI	none	Score	181
Exons	8485..8622, 8496..8621, 8496..8624, 8626..8670, 8629..8682, 8631..8672, 8660..8725, 8662..8715		

Seq. No.	28241	Seq. ID	OJ000250_96.0228.C1
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Gene No.	58077	Strand	-
Start	5966	End	9031
Name	OJ000250_96.0228.C1.o5.tw	Method	TBLASTX:Wheat
Start	8716	End	9030
GI	none	Score	44
Exons	8716..8748, 8719..8766, 8724..8765, 8738..8767, 8758..8814, 8768..8815, 8772..8816, 8773..8817, 8804..8830, 8808..8831, 8808..8843, 8809..8844, 8815..8922, 8816..8944, 8875..8937, 8939..8956, 8967..9017, 8968..9018, 8974..9030		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58078	Strand	+
Start	994	End	1451
Name	OJ000250_96.0228.C2.o1.gp	Method	AAT/GAP
Start	994	End	1451
GI	2231_2.R1084	Score	844
Exons	994..1451		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-145 Rice complete chloroplast genome'		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58079	Strand	+
Start	1547	End	2435
Name	OJ000250_96.0228.C2.o2.gp	Method	AAT/GAP
Start	1547	End	2435
GI	7587_1.R1084	Score	1675
Exons	1547..2435		
GI Descrip.	'131283/sp P12158 PSBC_ORYSA 2.0e-85 PHOTOSYSTEM II 44 KD REACTION CENTER PROTEIN (P6 PROTEIN) (CP43) >gi_72710_pir_F2RZ44 photosystem II chlorophyll a-binding protein psbC - rice chloroplast >gi_11965_emb_CAA34014_ (X15901) PSII 43kDa protein [Oryza sativa]'		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58080	Strand	+
Start	2498	End	3776
Name	OJ000250_96.0228.C2.o4.gp	Method	AAT/GAP
Start	2498	End	3776
GI	306_9.R1084	Score	239
Exons	2498..2525, 3602..3776		
GI Descrip.	'287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58081	Strand	+
Start	7518	End	7629
Name	OJ000250_96.0228.C2.o5.gp	Method	AAT/GAP
Start	7518	End	7629
GI	1036999	Score	198
Exons	7518..7629		
GI Descrip.	11957/emb X15901 CHOSXX 2.0e-52 Rice complete chloroplast genome		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58082	Strand	+
Start	7703	End	7855
Name	OJ000250_96.0228.C2.o6.gp	Method	AAT/GAP
Start	7703	End	7855

GI LIB3432-021-P1-K1-A3 Score 228  
 Exons 7703..7855  
 GI Descrip. '11957/emb|X15901|CHOSXX 1.0e-52 Rice complete chloroplast genome'

Seq. No. 28242 Seq. ID OJ000250\_96.0228.C2  
 Gene No. 58083 Strand -  
 Start 2753 End 3211  
 Name OJ000250\_96.0228.C2.o2.ts Method TBLASTX:Soybean  
 Start 2 End 620  
 GI none Score 945  
 Exons 2..568, 3..563, 232..564, 560..619, 563..619, 564..620

Seq. No. 28242 Seq. ID OJ000250\_96.0228.C2  
 Gene No. 58083 Strand -  
 Start 2753 End 3211  
 Name OJ000250\_96.0228.C2.o3.tc Method TBLASTX:Cress  
 Start 2 End 233  
 GI none Score 422  
 Exons 2..232, 3..233, 3..233

Seq. No. 28242 Seq. ID OJ000250\_96.0228.C2  
 Gene No. 58083 Strand -  
 Start 2753 End 3211  
 Name OJ000250\_96.0228.C2.o4.tm Method TBLASTX:Maize  
 Start 173 End 592  
 GI none Score 616  
 Exons 173..568, 174..563, 560..592, 563..592

Seq. No. 28242 Seq. ID OJ000250\_96.0228.C2  
 Gene No. 58083 Strand -  
 Start 2753 End 3211  
 Name OJ000250\_96.0228.C2.o2.tc Method TBLASTX:Cress  
 Start 317 End 645  
 GI none Score 377  
 Exons 317..568, 321..563, 560..643, 562..645, 563..643, 564..644, 565..645

Seq. No. 28242 Seq. ID OJ000250\_96.0228.C2  
 Gene No. 58083 Strand -  
 Start 2753 End 3211  
 Name OJ000250\_96.0228.C2.o2.tw Method TBLASTX:Wheat  
 Start 387 End 829  
 GI none Score 43  
 Exons 387..422, 407..568, 414..563, 418..564, 421..573, 422..580, 560..829, 563..829

Seq. No. 28242 Seq. ID OJ000250\_96.0228.C2  
 Gene No. 58083 Strand -  
 Start 2753 End 3211  
 Name OJ000250\_96.0228.C2.o1.ts Method TBLASTX:Soybean  
 Start 827 End 2321  
 GI none Score 1115  
 Exons 827..1771, 827..1342, 1176..1343, 1189..1785, 1391..2284, 1398..2321

Seq. No. 28242 Seq. ID OJ000250\_96.0228.C2

Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o1.tc	Method	TBLASTX:Cress
Start	847	End	2288
GI	none	Score	903
Exons	847..1683, 847..1134, 851..1342, 1189..1785, 1193..1777, 1391..2287, 1398..2288		
Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o2.tm	Method	TBLASTX:Maize
Start	890	End	1339
GI	none	Score	754
Exons	890..1339, 891..1337		
Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o3.tw	Method	TBLASTX:Wheat
Start	992	End	1390
GI	none	Score	576
Exons	992..1342, 993..1343, 1189..1389, 1193..1390		
Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o1.tm	Method	TBLASTX:Maize
Start	1375	End	1861
GI	none	Score	629
Exons	1375..1782, 1376..1771, 1391..1861, 1398..1859		
Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o1.tw	Method	TBLASTX:Wheat
Start	1391	End	2022
GI	none	Score	614
Exons	1391..1777, 1391..1924, 1392..1925, 1398..1925, 1825..1929, 1831..1944, 1844..1945, 1888..2022, 1905..2021, 1924..2022		
Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o3.tm	Method	TBLASTX:Maize
Start	1862	End	2324
GI	none	Score	668
Exons	1862..2281, 1862..2296, 1863..2297, 2292..2324, 2293..2322		
Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o4.tw	Method	TBLASTX:Wheat
Start	2023	End	2387
GI	none	Score	394
Exons	2023..2322, 2023..2322, 2025..2324, 2293..2376, 2315..2386, 2316..2387		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o3.ts	Method	TBLASTX:Soybean
Start	2514	End	3091
GI	none	Score	76
Exons	2514..2570, 2514..2573, 2516..2575, 2516..2575, 2564..2593, 2565..2597, 2768..2815, 2859..3083, 2867..3091, 2867..3079		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o5.tm	Method	TBLASTX:Maize
Start	2561	End	3191
GI	none	Score	77
Exons	2561..2650, 2561..2608, 2562..2609, 2621..2659, 2748..2846, 2762..2848, 2763..2846, 2767..2865, 2803..3117, 2813..3118, 2847..3119, 2849..3121, 3132..3176, 3137..3175, 3150..3191		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o4.tc	Method	TBLASTX:Cress
Start	2562	End	3091
GI	none	Score	45
Exons	2562..2600, 2641..2709, 2672..2704, 2770..2817, 2770..2799, 2862..3086, 2867..3091, 2867..3079, 2868..3080, 2875..3090		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58083	Strand	-
Start	2753	End	3211
Name	OJ000250_96.0228.C2.o3.gp	Method	AAT/GAP
Start	2753	End	3211
GI	45273_1.R1084	Score	850
Exons	2753..3211		
GI Descrip.	'1022811 4.0e-21 (U37703) ORF 62 [Hordeum vulgare]'		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58084	Strand	-
Start	3589	End	3956
Name	OJ000250_96.0228.C2.o10.tm	Method	TBLASTX:Maize
Start	3589	End	3956
GI	none	Score	44
Exons	3589..3615, 3739..3816, 3743..3898, 3746..3901, 3894..3953, 3897..3956		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58085	Strand	-
Start	4430	End	4702
Name	OJ000250_96.0228.C2.o7.tm	Method	TBLASTX:Maize
Start	4430	End	4702
GI	none	Score	86
Exons	4430..4498, 4431..4520, 4480..4584, 4488..4625, 4488..4628, 4490..4669, 4618..4701, 4619..4702		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
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Gene No.	58086	Strand	
Start	5637	End	5840
Name	OJ000250_96.0228.C2.o9.tm	Method	TBLASTX:Maize
Start	5637	End	5840
GI	none	Score	106
Exons	5637..5711, 5638..5712, 5639..5710, 5697..5840, 5705..5830		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58087	Strand	
Start	6695	End	6967
Name	OJ000250_96.0228.C2.o5.tc	Method	TBLASTX:Cress
Start	6695	End	6832
GI	none	Score	191
Exons	6695..6832, 6695..6832		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58087	Strand	
Start	6695	End	6967
Name	OJ000250_96.0228.C2.o8.tm	Method	TBLASTX:Maize
Start	6701	End	6967
GI	none	Score	250
Exons	6701..6865, 6701..6883, 6702..6884, 6724..6891, 6929..6967		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58088	Strand	
Start	7446	End	7855
Name	OJ000250_96.0228.C2.o4.ts	Method	TBLASTX:Soybean
Start	7446	End	7760
GI	none	Score	59
Exons	7446..7526, 7463..7570, 7592..7621, 7632..7760, 7638..7748		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58088	Strand	
Start	7446	End	7855
Name	OJ000250_96.0228.C2.o6.tc	Method	TBLASTX:Cress
Start	7476	End	7802
GI	none	Score	41
Exons	7476..7526, 7479..7526, 7524..7595, 7592..7639, 7629..7775, 7631..7750, 7641..7802		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58088	Strand	
Start	7446	End	7855
Name	OJ000250_96.0228.C2.o6.tm	Method	TBLASTX:Maize
Start	7553	End	7855
GI	none	Score	79
Exons	7553..7594, 7554..7595, 7554..7595, 7569..7640, 7588..7635, 7625..7801, 7629..7802, 7633..7809, 7778..7855, 7780..7854		

Seq. No.	28242	Seq. ID	OJ000250_96.0228.C2
Gene No.	58088	Strand	
Start	7446	End	7855
Name	OJ000250_96.0228.C2.o5.tw	Method	TBLASTX:Wheat
Start	7592	End	7790
GI	none	Score	50
Exons	7592..7639, 7593..7640, 7629..7790, 7631..7750, 7641..7784		



Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58099	Strand	+
Start	5122	End	5664
Name	OJ000250_96.0228.C4.o2.gp	Method	AAT/GAP
Start	5122	End	5664
GI	42732_1.R1084	Score	1070
Exons	5122..5664		
GI Descrip.	'114657/sp P12083 ATPI_ORYSA 3.0e-76 ATP SYNTHASE A CHAIN PRECURSOR (SUBUNIT IV) >gi_67926_pir_LWRZ6 H+-transporting ATP synthase (EC 3.6.1.34) chain a - rice chloroplast >gi_11975_emb_CAA33990_ (X15901) ATPase a subunit [Oryza sativa] >gi_226693_prf_1603356U ATPase a [Oryza sativa]'		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58100	Strand	+
Start	5705	End	6075
Name	OJ000250_96.0228.C4.o3.gp	Method	AAT/GAP
Start	5705	End	6075
GI	LIB3477-011-P1-K1-C10	Score	734
Exons	5705..6075		
GI Descrip.	'114657/sp P12083 ATPI_ORYSA 2.0e-34 ATP SYNTHASE A CHAIN PRECURSOR (SUBUNIT IV) >gi_67926_pir_LWRZ6 H+-transporting ATP synthase (EC 3.6.1.34) chain a - rice chloroplast >gi_11975_emb_CAA33990_ (X15901) ATPase a subunit [Oryza sativa] >gi_226693_prf_1603356U ATPase a [Oryza sativa]'		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58101	Strand	+
Start	8974	End	9520
Name	OJ000250_96.0228.C4.o6.gp	Method	AAT/GAP
Start	8974	End	9520
GI	5005311	Score	1047
Exons	8974..9520		
GI Descrip.	'114521/sp P12084 ATPA_ORYSA 1.0e-78 ATP SYNTHASE ALPHA CHAIN >gi_67827_pir_PWRZA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rice chloroplast >gi_11979_emb_CAA33993_ (X15901) ATPase alpha subunit [Oryza sativa] >gi_226696_prf_1603356X ATPase alpha [Oryza sativa]'		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58102	Strand	-
Start	1070	End	1155
Name	OJ000250_96.0228.C4.o1.gp	Method	AAT/GAP
Start	1070	End	1155
GI	LIB3432-013-P1-K1-E3	Score	133
Exons	1070..1155		
GI Descrip.	'133446/sp P12093 RPOD_ORYSA 3.0e-09 DNA-DIRECTED RNA POLYMERASE BETA" CHAIN >gi_66986_pir_RNRZC2 DNA-directed RNA polymerase (EC 2.7.7.6) beta''-2 chain - rice chloroplast >gi_11973_emb_CAA33988_ (X15901) RNA polymerase beta'' subunit-2 [Oryza sativa]'		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58103	Strand	-
Start	6740	End	7780
Name	OJ000250_96.0228.C4.o4.gp	Method	AAT/GAP
Start	6740	End	7780

GI 2721\_1.R1084 Score 1986  
 Exons 6740..7780  
 GI Descrip. '114622/sp|P12087|ATPF\_ORYSA 1.0e-20 ATP SYNTHASE B CHAIN  
 (SUBUNIT I) >gi\_67929\_pir\_LWRZ1 H+-transporting ATP synthase  
 (EC 3.6.1.34) chain I - rice chloroplast  
 >gi\_669080\_emb\_CAA33992\_(X15901) ATPase I subunit [Oryza  
 sativa]. >gi\_226695\_prf\_1603356W ATPase I [Oryza sativa]'

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
 Gene No. 58104 Strand -  
 Start 7818 End 9828  
 Name OJ000250\_96.0228.C4.o3.ts Method TBLASTX:Soybean  
 Start 1 End 2128  
 GI none Score 264  
 Exons 1..171, 3..173, 167..292, 168..317, 168..296, 169..297,  
 304..1056, 317..1057, 318..1064, 528..1058, 1061..1117,  
 1064..1213, 1071..1214, 1072..1275, 1183..1353, 1208..1351,  
 1224..1352, 1779..2063, 1780..2061, 1853..2128

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
 Gene No. 58104 Strand -  
 Start 7818 End 9828  
 Name OJ000250\_96.0228.C4.o3.tw Method TBLASTX:Wheat  
 Start 252 End 696  
 GI none Score 634  
 Exons 252..695, 252..491, 253..696, 253..696

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
 Gene No. 58104 Strand -  
 Start 7818 End 9828  
 Name OJ000250\_96.0228.C4.o5.tc Method TBLASTX:Cress  
 Start 397 End 813  
 GI none Score 394  
 Exons 397..807, 398..811, 402..809, 403..813

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
 Gene No. 58104 Strand -  
 Start 7818 End 9828  
 Name OJ000250\_96.0228.C4.o7.tc Method TBLASTX:Cress  
 Start 828 End 1343  
 GI none Score 158  
 Exons 828..1025, 828..1046, 829..1065, 829..1050, 1087..1341,  
 1152..1334, 1197..1343

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
 Gene No. 58104 Strand -  
 Start 7818 End 9828  
 Name OJ000250\_96.0228.C4.o9.tm Method TBLASTX:Maize  
 Start 1323 End 1684  
 GI none Score 138  
 Exons 1323..1445, 1330..1470, 1332..1445, 1339..1446, 1342..1416,  
 1343..1390, 1344..1415, 1360..1416, 1366..1476, 1370..1468,  
 1374..1421, 1375..1470, 1375..1476, 1379..1480, 1405..1479,  
 1408..1467, 1412..1498, 1412..1519, 1433..1519, 1451..1507,  
 1454..1507, 1460..1558, 1460..1507, 1460..1558, 1460..1507,  
 1502..1666, 1502..1666, 1508..1663, 1526..1681, 1529..1663,  
 1537..1581, 1544..1684, 1544..1567, 1565..1597, 1571..1636,

1585..1629, 1586..1636, 1588..1665, 1589..1675, 1594..1638,  
1622..1684, 1642..1680, 1645..1683

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
Gene No. 58104 Strand -  
Start 7818 End 9828  
Name OJ000250\_96.0228.C4.o2.tm Method TBLASTX:Maize  
Start 1685 End 2496  
GI none Score 46  
Exons 1685..1723, 1718..2083, 1748..1801, 1749..2084, 1750..2496,  
1750..2082, 1776..2495, 2158..2496

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
Gene No. 58104 Strand -  
Start 7818 End 9828  
Name OJ000250\_96.0228.C4.o10.tc Method TBLASTX:Cress  
Start 1727 End 2025  
GI none Score 66  
Exons 1727..1834, 1749..2024, 1750..2025, 1750..2022, 1779..2024

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
Gene No. 58104 Strand -  
Start 7818 End 9828  
Name OJ000250\_96.0228.C4.o1.tw Method TBLASTX:Wheat  
Start 1950 End 2569  
GI none Score 42  
Exons 1950..2021, 1961..1999, 1963..2022, 1987..2247, 1994..2155,  
2148..2564, 2148..2567, 2149..2568, 2150..2569

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
Gene No. 58104 Strand -  
Start 7818 End 9828  
Name OJ000250\_96.0228.C4.o6.tc Method TBLASTX:Cress  
Start 2026 End 2733  
GI none Score 55  
Exons 2026..2061, 2060..2149, 2068..2145, 2137..2403, 2163..2384,  
2171..2431, 2397..2501, 2397..2504, 2398..2733, 2398..2529,  
2587..2724, 2589..2732

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
Gene No. 58104 Strand -  
Start 7818 End 9828  
Name OJ000250\_96.0228.C4.o1.tc Method TBLASTX:Cress  
Start 2803 End 3948  
GI none Score 47  
Exons 2803..2859, 2811..2903, 2965..3021, 2968..3012, 3016..3090,  
3024..3080, 3102..3827, 3103..3834, 3631..3834, 3755..3853,  
3892..3948, 3894..3947

Seq. No. 28243 Seq. ID OJ000250\_96.0228.C4  
Gene No. 58104 Strand -  
Start 7818 End 9828  
Name OJ000250\_96.0228.C4.o2.ts Method TBLASTX:Soybean  
Start 2938 End 4013  
GI none Score 143  
Exons 2938..3093, 2959..3093, 3102..3479, 3102..3827, 3103..3894,  
3763..3891, 3764..3895, 3874..3936, 3881..3949, 3881..3949,

3894..3953, 3906..4013

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o11.tm	Method	TBLASTX:Maize
Start	3208	End	3345
GI	none	Score	215
Exons	3208..3345, 3208..3345		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o6.tm	Method	TBLASTX:Maize
Start	3534	End	3828
GI	none	Score	67
Exons	3534..3623, 3542..3589, 3570..3827, 3570..3827, 3571..3828, 3628..3828		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o4.tw	Method	TBLASTX:Wheat
Start	3585	End	3993
GI	none	Score	632
Exons	3585..3992, 3589..3993, 3628..3993		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o4.tm	Method	TBLASTX:Maize
Start	3829	End	4489
GI	none	Score	276
Exons	3829..4002, 3830..4000, 3997..4029, 3998..4030, 3999..4037, 4035..4076, 4041..4076, 4084..4149, 4084..4149, 4135..4179, 4141..4233, 4149..4211, 4151..4234, 4273..4449, 4283..4468, 4286..4468, 4463..4489, 4463..4489		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o4.tc	Method	TBLASTX:Cress
Start	4148	End	4770
GI	none	Score	35
Exons	4148..4168, 4149..4166, 4283..4657, 4285..4659, 4286..4660, 4655..4768, 4657..4770		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o1.ts	Method	TBLASTX:Soybean
Start	4150	End	9828
GI	none	Score	530
Exons	4150..4173, 4281..4979, 4283..4972, 4285..5001, 4286..4996, 4554..5006, 5012..5053, 5237..5986, 5238..5837, 5892..5987, 6619..6681, 6706..6774, 6751..7038, 6764..7036, 6896..7042, 7063..7131, 7467..7646, 7471..7647, 7471..7647, 7476..7649,		

7738..7797, 7740..7811, 7743..7796, 7744..7797, 7803..7856,  
 7804..7857, 7807..7854, 7842..7895, 7844..7927, 7864..7935,  
 7888..7932, 7935..7994, 7954..8001, 7954..7995, 8023..8091,  
 8026..8097, 8033..8092, 8182..8199, 8281..8322, 8288..8317,  
 8358..8858, 8362..8856, 8878..8913, 8918..9481, 8929..9828,  
 9108..9761, 9592..9762, 9759..9827

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o5.tm	Method	TBLASTX:Maize
Start	4490	End	4774
GI	none	Score	475
Exons	4490..4774, 4490..4774		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o3.tc	Method	TBLASTX:Cress
Start	5226	End	5738
GI	none	Score	58
Exons	5226..5276, 5233..5274, 5264..5713, 5277..5738, 5279..5737		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o7.tm	Method	TBLASTX:Maize
Start	5633	End	5895
GI	none	Score	327
Exons	5633..5893, 5633..5839, 5635..5895, 5668..5895		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o8.tm	Method	TBLASTX:Maize
Start	5896	End	6239
GI	none	Score	172
Exons	5896..6018, 5897..6013, 5901..6017, 5902..6018, 6005..6139, 6011..6154, 6013..6183, 6030..6167, 6148..6171, 6170..6211, 6171..6212, 6214..6237, 6216..6239		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o3.tm	Method	TBLASTX:Maize
Start	6326	End	7261
GI	none	Score	186
Exons	6326..6493, 6341..6370, 6363..6494, 6459..6494, 6470..6550, 6503..6601, 6532..6603, 6542..6604, 6578..6670, 6603..6674, 6604..6675, 6606..6674, 6679..6720, 6679..6717, 6706..6762, 6707..6763, 6716..6763, 6724..6765, 6744..6830, 6755..7126, 6757..7125, 6895..7149, 7133..7177, 7135..7179, 7163..7261, 7176..7259, 7178..7261		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828

Name	OJ000250_96.0228.C4.o8.tc	Method	TBLASTX:Cress
Start	6730	End	7036
GI	none	Score	328
Exons	6730..7026, 6731..7036, 6896..7036		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o1.tm	Method	TBLASTX:Maize
Start	7264	End	8930
GI	none	Score	200
Exons	7264..7428, 7264..7365, 7356..7388, 7401..7715, 7413..7715, 7414..7716, 7421..7717, 7675..7800, 7685..7798, 7687..7800, 7800..7892, 7801..7917, 7801..7929, 7808..7939, 7879..8025, 7921..8025, 7935..8030, 8018..8095, 8019..8099, 8026..8103, 8056..8166, 8059..8172, 8087..8188, 8110..8325, 8146..8271, 8171..8317, 8274..8360, 8328..8858, 8347..8868, 8587..8868, 8863..8916, 8863..8922, 8868..8930		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o2.tc	Method	TBLASTX:Cress
Start	7530	End	9429
GI	none	Score	129
Exons	7530..7628, 7539..7628, 8454..8828, 8454..8858, 8455..8865, 8918..9415, 8932..9429, 9108..9428		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o5.tw	Method	TBLASTX:Wheat
Start	7647	End	8124
GI	none	Score	183
Exons	7647..7763, 7648..7767, 7648..7767, 7764..7811, 7764..7802, 7800..7892, 7801..7923, 7802..7924, 7898..8008, 7926..8009, 7927..8010, 7927..8007, 8007..8093, 8010..8090, 8011..8097, 8020..8124, 8087..8122		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o5.gp	Method	AAT/GAP
Start	7818	End	8363
GI	2135_1.R1084	Score	1072
Exons	7818..8363		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-159 Rice complete chloroplast genome'		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o2.tw	Method	TBLASTX:Wheat
Start	8346	End	8791
GI	none	Score	120
Exons	8346..8432, 8347..8430, 8360..8440, 8364..8432, 8436..8786, 8438..8776, 8441..8791		

Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o10.tm	Method	TBLASTX:Maize
Start	8974	End	9287
GI	none	Score	260
Exons	8974..9285, 9111..9155, 9216..9287		
Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58104	Strand	-
Start	7818	End	9828
Name	OJ000250_96.0228.C4.o11.tc	Method	TBLASTX:Cress
Start	9438	End	9704
GI	none	Score	193
Exons	9438..9704, 9439..9696		
Seq. No.	28243	Seq. ID	OJ000250_96.0228.C4
Gene No.	58105	Strand	-
Start	9787	End	9983
Name	OJ000250_96.0228.C4.o9.tc	Method	TBLASTX:Cress
Start	9787	End	9983
GI	none	Score	318
Exons	9787..9981, 9789..9983, 9789..9983		
Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	-
Start	309	End	7982
Name	OJ000250_96.0228.C5.o7.tc	Method	TBLASTX:Cress
Start	309	End	991
GI	none	Score	66
Exons	309..362, 310..393, 311..391, 419..616, 420..614, 421..621, 422..616, 635..766, 670..738, 716..739, 881..991, 907..990		
Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	-
Start	309	End	7982
Name	OJ000250_96.0228.C5.o1.ts	Method	TBLASTX:Soybean
Start	638	End	4370
GI	none	Score	117
Exons	638..784, 670..735, 705..746, 857..2119, 858..1370, 907..2154, 907..2154, 3135..3227, 3239..3382, 3257..3346, 3386..3466, 3510..3710, 3533..3703, 3628..3846, 3901..3945, 3967..4140, 3971..4072, 4131..4370		
Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	-
Start	309	End	7982
Name	OJ000250_96.0228.C5.o1.tm	Method	TBLASTX:Maize
Start	656	End	4616
GI	none	Score	164
Exons	656..754, 670..753, 755..772, 756..782, 814..861, 815..868, 816..872, 866..2119, 870..1370, 895..2307, 907..2439, 2076..2429, 2357..2440, 2405..2500, 2410..2517, 2415..2495, 2419..2499, 3239..3382, 3257..3355, 3386..3466, 3533..3700, 3533..3703, 3534..3710, 3628..3846, 3901..3945, 3967..4140, 3971..4072, 4131..4370, 4138..4383, 4377..4616, 4378..4449,		

4401..4526, 4489..4548

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o2.tc	Method	TBLASTX:Cress
Start	1033	End	3710
GI	none	Score	266
Exons	1033..1200, 1034..1198, 1194..1370, 1197..1580, 1199..1579, 1201..1581, 1202..1582, 3251..3382, 3257..3355, 3392..3466, 3533..3703, 3534..3710		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o1.tc	Method	TBLASTX:Cress
Start	1684	End	4939
GI	none	Score	34
Exons	1684..1713, 1687..1731, 1735..1968, 1738..2142, 1742..2092, 2155..2301, 2156..2308, 2479..2610, 2620..2724, 3739..4140, 3773..4132, 4131..4727, 4131..4937, 4138..4938, 4493..4939		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o4.ts	Method	TBLASTX:Soybean
Start	2154	End	4818
GI	none	Score	163
Exons	2154..2414, 2155..2307, 2155..2628, 2156..2308, 2156..2629, 2352..2405, 2357..2629, 2362..2631, 2442..2639, 4377..4547, 4378..4548, 4551..4598, 4704..4817, 4705..4818		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o13.tc	Method	TBLASTX:Cress
Start	2309	End	2479
GI	none	Score	141
Exons	2309..2467, 2311..2472, 2334..2468, 2356..2478, 2357..2479		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o7.tm	Method	TBLASTX:Maize
Start	2518	End	4949
GI	none	Score	384
Exons	2518..2811, 2518..2811, 2519..2812, 4704..4826, 4726..4818, 4833..4949		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o8.ts	Method	TBLASTX:Soybean
Start	2642	End	5069
GI	none	Score	351
Exons	2642..2887, 2642..2737, 2671..2886, 4833..4949, 5016..5069		



Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o6.tc	Method	TBLASTX:Cress
Start	2728	End	5240
GI	none	Score	75
Exons	2728..2847, 2729..2848, 2797..3222, 2798..3247, 2801..3247, 5028..5174, 5169..5240		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o4.tm	Method	TBLASTX:Maize
Start	2812	End	6088
GI	none	Score	742
Exons	2812..2970, 2968..3039, 4958..5410, 4958..5293, 4959..5438, 4960..5415, 5385..5498, 5401..5445, 5408..5485, 5460..5588, 5474..5590, 5480..5596, 5591..5620, 5592..5621, 5634..5684, 5637..5684, 5662..5766, 5676..5765, 5699..5779, 5763..5834, 5764..5820, 5768..5821, 5815..5895, 5817..5897, 5817..5897, 5925..6077, 5937..6074, 5941..6081, 5942..6088		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o6.ts	Method	TBLASTX:Soybean
Start	2887	End	5509
GI	none	Score	365
Exons	2887..2970, 2968..3039, 5091..5408, 5091..5426, 5095..5427, 5098..5427, 5339..5428, 5480..5509		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o11.tc	Method	TBLASTX:Cress
Start	5241	End	5509
GI	none	Score	234
Exons	5241..5408, 5241..5408, 5242..5409, 5248..5409, 5403..5486, 5480..5509		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o10.ts	Method	TBLASTX:Soybean
Start	5967	End	6957
GI	none	Score	149
Exons	5967..6122, 5968..6123, 6008..6133, 6839..6955, 6841..6957, 6847..6957		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o12.tc	Method	TBLASTX:Cress
Start	6018	End	6349
GI	none	Score	136
Exons	6018..6158, 6018..6146, 6025..6162, 6134..6199, 6135..6185, 6136..6189, 6137..6190, 6248..6292, 6248..6322, 6252..6323,		

6306..6344, 6311..6349

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o8.tm	Method	TBLASTX:Maize
Start	6143	End	6486
GI	none	Score	240
Exons	6143..6298, 6146..6298, 6248..6370, 6294..6410, 6298..6423, 6300..6407, 6396..6446, 6400..6483, 6403..6465, 6407..6484, 6436..6486, 6437..6484		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o9.tc	Method	TBLASTX:Cress
Start	6817	End	7168
GI	none	Score	393
Exons	6817..7074, 6818..7168, 6819..7154, 6820..7167		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o3.tm	Method	TBLASTX:Maize
Start	6826	End	7982
GI	none	Score	556
Exons	6826..7074, 6828..7178, 6828..7163, 7028..7180, 7114..7179, 7173..7802, 7177..7833, 7178..7786, 7209..7799, 7756..7959, 7781..7960, 7797..7961, 7797..7961, 7798..7962, 7962..7982, 7964..7981		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o10.tc	Method	TBLASTX:Cress
Start	7233	End	7971
GI	none	Score	56
Exons	7233..7289, 7245..7265, 7300..7353, 7317..7352, 7317..7448, 7358..7474, 7359..7475, 7363..7482, 7470..7586, 7482..7586, 7483..7596, 7595..7687, 7607..7687, 7609..7692, 7778..7957, 7785..7967, 7785..7967, 7786..7971		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58106	Strand	
Start	309	End	7982
Name	OJ000250_96.0228.C5.o9.ts	Method	TBLASTX:Soybean
Start	7296	End	7972
GI	none	Score	54
Exons	7296..7352, 7297..7356, 7316..7357, 7329..7451, 7358..7477, 7359..7487, 7530..7565, 7540..7563, 7599..7625, 7606..7680, 7626..7697, 7640..7684, 7692..7718, 7696..7719, 7797..7964, 7798..7965, 7798..7965, 7811..7972		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58107	Strand	
Start	8149	End	8535
Name	OJ000250_96.0228.C5.o9.tm	Method	TBLASTX:Maize

Start	8149	End	8535
GI	none	Score	291
Exons	8149..8169, 8153..8437, 8173..8304, 8192..8440, 8350..8445, 8436..8525, 8439..8525, 8440..8535, 8440..8526		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58108	Strand	
Start	8616	End	9910
Name	OJ000250_96.0228.C5.o6.tm	Method	TBLASTX:Maize
Start	8616	End	9158
GI	none	Score	97
Exons	8616..8699, 8617..8697, 8618..8698, 8644..8700, 8699..8851, 8700..9125, 8701..9141, 8701..9126, 8703..9131, 9123..9158		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58108	Strand	
Start	8616	End	9910
Name	OJ000250_96.0228.C5.o2.tw	Method	TBLASTX:Wheat
Start	8786	End	9186
GI	none	Score	101
Exons	8786..8824, 8823..8903, 8835..8903, 8842..8904, 8848..8904, 8863..9186, 8892..9185		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58108	Strand	
Start	8616	End	9910
Name	OJ000250_96.0228.C5.o4.tc	Method	TBLASTX:Cress
Start	8913	End	9910
GI	none	Score	585
Exons	8913..9542, 8914..9543, 8916..9542, 8923..9543, 9413..9547, 9561..9632, 9562..9609, 9775..9894, 9807..9896, 9814..9891, 9815..9910, 9815..9901		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58108	Strand	
Start	8616	End	9910
Name	OJ000250_96.0228.C5.o5.ts	Method	TBLASTX:Soybean
Start	9138	End	9641
GI	none	Score	369
Exons	9138..9533, 9138..9539, 9139..9540, 9446..9541, 9585..9641		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58108	Strand	
Start	8616	End	9910
Name	OJ000250_96.0228.C5.o10.tm	Method	TBLASTX:Maize
Start	9419	End	9676
GI	none	Score	163
Exons	9419..9532, 9419..9532, 9420..9533, 9421..9561, 9527..9619, 9529..9642, 9531..9641, 9533..9652, 9650..9676, 9651..9674		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58109	Strand	
Start	10270	End	11286
Name	OJ000250_96.0228.C5.o5.tm	Method	TBLASTX:Maize
Start	10270	End	11261
GI	none	Score	78
Exons	10270..10383, 10302..10385, 10378..10539, 10380..10538,		

10381..10551, 10531..10761, 10532..10762, 10535..10771,  
 10536..10772, 10768..10803, 10771..10890, 10772..10801,  
 10795..10887, 10796..10894, 10806..10898, 10970..11017,  
 10977..11075, 10978..11076, 11070..11117, 11071..11148,  
 11071..11148, 11072..11149, 11072..11149, 11085..11153,  
 11146..11220, 11147..11257, 11147..11260, 11160..11261

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58109	Strand	
Start	10270	End	11286
Name	OJ000250_96.0228.C5.o11.ts	Method	TBLASTX:Soybean
Start	10623	End	10890
GI	none	Score	165
Exons	10623..10772, 10645..10806, 10662..10772, 10762..10812, 10768..10890, 10769..10885, 10794..10886, 10834..10887		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58109	Strand	
Start	10270	End	11286
Name	OJ000250_96.0228.C5.o3.tw	Method	TBLASTX:Wheat
Start	10647	End	10909
GI	none	Score	176
Exons	10647..10835, 10654..10764, 10655..10771, 10751..10804, 10770..10811, 10823..10909, 10834..10899, 10835..10909		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58109	Strand	
Start	10270	End	11286
Name	OJ000250_96.0228.C5.o14.tc	Method	TBLASTX:Cress
Start	11150	End	11286
GI	none	Score	133
Exons	11150..11266, 11153..11284, 11160..11273, 11160..11285, 11263..11286		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58110	Strand	
Start	11875	End	14534
Name	OJ000250_96.0228.C5.o2.tm	Method	TBLASTX:Maize
Start	11875	End	14534
GI	none	Score	68
Exons	11875..11925, 11875..11925, 11876..11935, 11924..11995, 11928..11996, 11938..11967, 11993..12652, 11999..12634, 12632..12670, 12639..12848, 12643..12858, 12674..12865, 12675..12845, 12682..12846, 12831..13355, 12834..13217, 12835..13386, 12835..13365, 12836..13366, 13369..13680, 13391..13891, 13407..13892, 13686..13892, 13741..13893, 13889..14050, 13894..14076, 13895..14077, 14086..14130, 14107..14160, 14107..14136, 14112..14159, 14153..14179, 14157..14180, 14210..14272, 14212..14274, 14227..14274, 14246..14368, 14279..14323, 14295..14417, 14302..14403, 14402..14464, 14403..14462, 14457..14534, 14459..14485, 14466..14534		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58110	Strand	
Start	11875	End	14534
Name	OJ000250_96.0228.C5.o5.tc	Method	TBLASTX:Cress

Start	12082	End	12559
GI	none	Score	463
Exons	12082..12549, 12083..12550, 12083..12559, 12213..12557		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58110	Strand	
Start	11875	End	14534
Name	OJ000250_96.0228.C5.o3.ts	Method	TBLASTX:Soybean
Start	12134	End	12584
GI	none	Score	383
Exons	12134..12568, 12134..12568, 12210..12584		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58110	Strand	
Start	11875	End	14534
Name	OJ000250_96.0228.C5.o3.tc	Method	TBLASTX:Cress
Start	12646	End	13363
GI	none	Score	146
Exons	12646..12834, 12671..12835, 12672..12938, 12825..12896, 12883..12939, 12933..13355, 12934..13362, 13049..13363		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58110	Strand	
Start	11875	End	14534
Name	OJ000250_96.0228.C5.o2.ts	Method	TBLASTX:Soybean
Start	12714	End	13398
GI	none	Score	441
Exons	12714..13217, 12714..13355, 12715..13398, 12715..13362		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58110	Strand	
Start	11875	End	14534
Name	OJ000250_96.0228.C5.o1.tw	Method	TBLASTX:Wheat
Start	12801	End	13332
GI	none	Score	694
Exons	12801..13331, 12802..13332		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58110	Strand	
Start	11875	End	14534
Name	OJ000250_96.0228.C5.o8.tc	Method	TBLASTX:Cress
Start	13394	End	13793
GI	none	Score	342
Exons	13394..13426, 13443..13793, 13443..13787, 13475..13789, 13726..13791		

Seq. No.	28244	Seq. ID	OJ000250_96.0228.C5
Gene No.	58110	Strand	
Start	11875	End	14534
Name	OJ000250_96.0228.C5.o7.ts	Method	TBLASTX:Soybean
Start	13400	End	13733
GI	none	Score	306
Exons	13400..13675, 13401..13733, 13403..13732		

Seq. No.	28245	Seq. ID	OJ000250_96.0228.C6
Gene No.	58111	Strand	
Start	2	End	278

Name OJ000250\_96.0228.C6.o2.tm  
 Start 2  
 GI none  
 Exons 2..181, 2..223, 213..278

Method TBLASTX:Maize  
 End 278  
 Score 258

Seq. No. 28245  
 Gene No. 58112  
 Start 413  
 Name OJ000250\_96.0228.C6.o1.tc  
 Start 413  
 GI none  
 Exons 413..583, 508..747, 573..737, 739..1062

Seq. ID OJ000250\_96.0228.C6  
 Strand  
 End 1062  
 Method TBLASTX:Cress  
 End 1062  
 Score 75

Seq. No. 28245  
 Gene No. 58112  
 Start 413  
 Name OJ000250\_96.0228.C6.o1.tm  
 Start 446  
 GI none  
 Exons 446..583, 447..776, 486..776, 783..830

Seq. ID OJ000250\_96.0228.C6  
 Strand  
 End 1062  
 Method TBLASTX:Maize  
 End 830  
 Score 131

Seq. No. 28245  
 Gene No. 58112  
 Start 413  
 Name OJ000250\_96.0228.C6.o1.ts  
 Start 508  
 GI none  
 Exons 508..1062, 509..583, 591..1058, 598..1062

Seq. ID OJ000250\_96.0228.C6  
 Strand  
 End 1062  
 Method TBLASTX:Soybean  
 End 1062  
 Score 69

Seq. No. 28246  
 Gene No. 58113  
 Start 1092  
 Name OJ000250\_96.0228.C7.o2.gp  
 Start 1092  
 GI 24824\_1.R1084  
 Exons 1092..1821  
 GI Descrip. '476752 5.0e-87 (L24073) rubisco large subunit [Oryza sativa]  
 >gi\_1583954\_prf\_2121489A  
 RuBisCO:SUBUNIT=large:ISOTYPE=truncated [Oryza sativa]'

Seq. ID OJ000250\_96.0228.C7  
 Strand +  
 End 1821  
 Method AAT/GAP  
 End 1821  
 Score 1379

Seq. No. 28246  
 Gene No. 58114  
 Start 1918  
 Name OJ000250\_96.0228.C7.o3.gp  
 Start 1918  
 GI 14384\_1.R1084  
 Exons 1918..2629, 2715..2743  
 GI Descrip. '5881726/dbj|BAA84417.1| 3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]'

Seq. ID OJ000250\_96.0228.C7  
 Strand +  
 End 2743  
 Method AAT/GAP  
 End 2743  
 Score 1358

Seq. No. 28246  
 Gene No. 58115  
 Start 4559  
 Name OJ000250\_96.0228.C7.o4.gp  
 Start 4559

Seq. ID OJ000250\_96.0228.C7  
 Strand +  
 End 5182  
 Method AAT/GAP  
 End 5182

GI 7528\_2.R1084 Score 1143  
 Exons 4559..5182  
 GI Descrip. '140291/sp|P12206|YCF4\_ORYSA 7.0e-68 HYPOTHETICAL 21.5 KD  
 PROTEIN (ORF 185) >gi\_82541\_pir\_S05116 hypothetical protein 185  
 - rice chloroplast >gi\_11997\_emb\_CAA33958 (X15901) ORF185  
 [Oryza sativa] >gi\_226618\_prf\_1603356AQ ORF 185 [Oryza sativa]'

Seq. No. 28246 Seq. ID OJ000250\_96.0228.C7  
 Gene No. 58116 Strand -  
 Start 112 End 628  
 Name OJ000250\_96.0228.C7.o1.gp Method AAT/GAP  
 Start 112 End 628  
 GI uC-osf1M202083h12b1 Score 968  
 Exons 112..628  
 GI Descrip. '552857 3.0e-25 (M31464) atpB gene product [Oryza sativa]'

Seq. No. 28246 Seq. ID OJ000250\_96.0228.C7  
 Gene No. 58117 Strand -  
 Start 5186 End 5436  
 Name OJ000250\_96.0228.C7.o2.ts Method TBLASTX:Soybean  
 Start 1 End 836  
 GI none Score 434  
 Exons 1..345, 2..346, 2..346, 780..836

Seq. No. 28246 Seq. ID OJ000250\_96.0228.C7  
 Gene No. 58117 Strand -  
 Start 5186 End 5436  
 Name OJ000250\_96.0228.C7.o4.tm Method TBLASTX:Maize  
 Start 1 End 443  
 GI none Score 138  
 Exons 1..96, 2..97, 85..369, 89..394, 89..397, 123..401, 392..421,  
 392..421, 426..443

Seq. No. 28246 Seq. ID OJ000250\_96.0228.C7  
 Gene No. 58117 Strand -  
 Start 5186 End 5436  
 Name OJ000250\_96.0228.C7.o3.tc Method TBLASTX:Cress  
 Start 1 End 349  
 GI none Score 429  
 Exons 1..348, 2..349

Seq. No. 28246 Seq. ID OJ000250\_96.0228.C7  
 Gene No. 58117 Strand -  
 Start 5186 End 5436  
 Name OJ000250\_96.0228.C7.o3.tw Method TBLASTX:Wheat  
 Start 219 End 651  
 GI none Score 215  
 Exons 219..368, 219..314, 221..358, 319..405, 320..430, 365..451,  
 366..440, 429..650, 438..617, 439..651, 442..651

Seq. No. 28246 Seq. ID OJ000250\_96.0228.C7  
 Gene No. 58117 Strand -  
 Start 5186 End 5436  
 Name OJ000250\_96.0228.C7.o8.tm Method TBLASTX:Maize  
 Start 444 End 634  
 GI none Score 199  
 Exons 444..581, 444..581, 445..606, 446..583, 574..630, 578..634,

578..631, 580..633

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o6.tm	Method	TBLASTX:Maize
Start	776	End	1085
GI	none	Score	186
Exons	776..898, 780..899, 875..985, 886..963, 888..983, 889..993, 958..1083, 960..1085		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o2.tw	Method	TBLASTX:Wheat
Start	819	End	1504
GI	none	Score	182
Exons	819..947, 819..980, 821..964, 938..1036, 967..1029, 992..1066, 1030..1458, 1050..1502, 1050..1502, 1079..1504		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o1.ts	Method	TBLASTX:Soybean
Start	1059	End	1762
GI	none	Score	1013
Exons	1059..1745, 1059..1760, 1082..1762, 1247..1762		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o2.tc	Method	TBLASTX:Cress
Start	1068	End	1544
GI	none	Score	41
Exons	1068..1100, 1102..1452, 1103..1525, 1104..1544, 1107..1544		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o1.tm	Method	TBLASTX:Maize
Start	1086	End	1832
GI	none	Score	1079
Exons	1086..1784, 1098..1826, 1782..1832		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o4.tw	Method	TBLASTX:Wheat
Start	1505	End	1687
GI	none	Score	319
Exons	1505..1687, 1506..1685		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o1.tw	Method	TBLASTX:Wheat
Start	1830	End	2582



GI	none	Score	926
Exons	1830..2576, 1831..2532, 1836..2582		
Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o7.tm	Method	TBLASTX:Maize
Start	1835	End	2124
GI	none	Score	205
Exons	1835..2119, 1836..2123, 1840..2118, 1855..2124		
Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o5.tc	Method	TBLASTX:Cress
Start	2067	End	2214
GI	none	Score	156
Exons	2067..2189, 2068..2214, 2069..2203		
Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o3.tm	Method	TBLASTX:Maize
Start	2177	End	2713
GI	none	Score	310
Exons	2177..2536, 2186..2392, 2199..2546, 2202..2546, 2654..2713, 2658..2711		
Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o4.tc	Method	TBLASTX:Cress
Start	2297	End	2566
GI	none	Score	353
Exons	2297..2428, 2298..2564, 2298..2564, 2465..2566		
Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o9.tm	Method	TBLASTX:Maize
Start	2853	End	3598
GI	none	Score	52
Exons	2853..2885, 2855..2905, 2880..2912, 2880..2912, 2898..3002, 2898..2984, 2912..3004, 3536..3598		
Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o3.ts	Method	TBLASTX:Soybean
Start	3602	End	5326
GI	none	Score	140
Exons	3602..3823, 3661..3780, 4283..4420, 4285..4374, 4295..4381, 4296..4382, 4742..4903, 4747..4887, 4891..5094, 4899..4940, 4925..5140, 4925..5137, 5160..5222, 5163..5222, 5171..5227, 5249..5308, 5249..5326		
Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7

Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o5.tm	Method	TBLASTX:Maize
Start	4237	End	4667
GI	none	Score	273
Exons	4237..4416, 4243..4416, 4419..4517, 4420..4518, 4420..4533, 4506..4583, 4514..4585, 4517..4585, 4519..4605, 4553..4651, 4575..4652, 4578..4667, 4582..4653		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o1.tc	Method	TBLASTX:Cress
Start	4748	End	5309
GI	none	Score	699
Exons	4748..5233, 4751..5239, 5173..5241, 5220..5309, 5225..5308		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o2.tm	Method	TBLASTX:Maize
Start	4917	End	5326
GI	none	Score	606
Exons	4917..5324, 4922..5326, 4925..5326		

Seq. No.	28246	Seq. ID	OJ000250_96.0228.C7
Gene No.	58117	Strand	-
Start	5186	End	5436
Name	OJ000250_96.0228.C7.o5.gp	Method	AAT/GAP
Start	5186	End	5436
GI	2653_1.R1084	Score	478
Exons	5186..5436		
GI Descrip.	'11998/emb CAA33959  5.0e-35 (X15901) ORF85 [Oryza sativa] >gi_226619_prf__1603356AR ORF 85A [Oryza sativa]'		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58118	Strand	+
Start	661	End	1102
Name	OJ000250_96.0228.C8.o1.gp	Method	AAT/GAP
Start	661	End	1102
GI	uC-osflm202092b08b1	Score	831
Exons	661..1102		
GI Descrip.	'118048/sp P07888 CYF_ORYSA 5.0e-65 APOCYTOCHROME F PRECURSOR >gi_65615_pir_CFRZ plastoquinol--plastocyanin reductase (EC 1.10.99.1) cytochrome f precursor - rice chloroplast >gi_12000_emb_CAA33961 (X15901) cytochrome f [Oryza sativa] >gi_226621_prf__1603356AU cytochrome f [Oryza sativa]'		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58119	Strand	+
Start	5667	End	6189
Name	OJ000250_96.0228.C8.o2.gp	Method	AAT/GAP
Start	5667	End	6189
GI	uC-osflm202104g03b1	Score	1026
Exons	5667..6189		
GI Descrip.	'131211/sp P19443 PSAJ_MAIZE 6.0e-10 PHOTOSYSTEM I REACTION CENTRE SUBUNIT IX (PSI-J) >gi_1363533_pir__S58571 photosystem I		

protein psaJ - maize chloroplast >gi\_552734 (J04502) ORF42 [Zea mays] >gi\_902241\_emb\_CAA60305\_ (X86563) psaJ [Zea mays]'

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58120	Strand	+
Start	9734	End	9862
Name	OJ000250_96.0228.C8.o4.gp	Method	AAT/GAP
Start	9734	End	9862
GI	LIB3432-057-P1-K1-A8	Score	169
Exons	9734..9862		
GI Descrip.	'11957/emb X15901 CHOSXX 7.0e-52 Rice complete chloroplast genome'		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58121	Strand	+
Start	10412	End	10964
Name	OJ000250_96.0228.C8.o5.gp	Method	AAT/GAP
Start	10412	End	10964
GI	2896_1.R1084	Score	1023
Exons	10412..10964		
GI Descrip.	'131271/sp P12157 PSBB_ORYSA 2.0e-88 PHOTOSYSTEM II P680 CHLOROPHYLL A APOPROTEIN (CP-47 PROTEIN) >gi_72705_pir_QJRZ6A photosystem II chlorophyll a-binding protein psbB - rice chloroplast >gi_12013_emb_CAA33973_ (X15901) PSII 47kDa protein [Oryza sativa] >gi_226634_prf_1603356BH photosystem II 47kD protein [Oryza sativa]'		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o1.ts	Method	TBLASTX:Soybean
Start	165	End	1701
GI	none	Score	332
Exons	165..482, 185..490, 711..920, 717..1700, 718..1701		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o10.tc	Method	TBLASTX:Cress
Start	177	End	394
GI	none	Score	228
Exons	177..392, 179..394		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o1.tc	Method	TBLASTX:Cress
Start	395	End	1661
GI	none	Score	91
Exons	395..475, 396..467, 697..1497, 711..920, 718..1506, 1603..1659, 1603..1659, 1611..1661		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o4.tw	Method	TBLASTX:Wheat
Start	486	End	912

GI	none	Score	39
Exons	486..512, 487..522, 488..526, 516..587, 517..636, 532..657, 572..784, 592..783, 684..785, 787..912, 790..909, 792..911		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o3.tm	Method	TBLASTX:Maize
Start	538	End	1018
GI	none	Score	58
Exons	538..576, 540..584, 573..920, 574..1017, 575..1018, 578..1018		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o9.tm	Method	TBLASTX:Maize
Start	1018	End	1186
GI	none	Score	273
Exons	1018..1185, 1019..1186, 1021..1185		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o8.tw	Method	TBLASTX:Wheat
Start	1243	End	1360
GI	none	Score	205
Exons	1243..1359, 1244..1360, 1246..1359		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o5.tw	Method	TBLASTX:Wheat
Start	1479	End	1806
GI	none	Score	377
Exons	1479..1742, 1486..1806, 1486..1806		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o6.tc	Method	TBLASTX:Cress
Start	2625	End	2962
GI	none	Score	273
Exons	2625..2870, 2628..2870, 2909..2962, 2910..2960		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o7.tm	Method	TBLASTX:Maize
Start	2679	End	2962
GI	none	Score	364
Exons	2679..2894, 2679..2933, 2680..2922, 2893..2949, 2894..2962, 2895..2960, 2896..2961		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o2.tw	Method	TBLASTX:Wheat

Start 2915  
GI none  
Exons 2915..3340, 2916..3356

End 3356  
Score 669

Seq. No. 28247 Seq. ID OJ000250\_96.0228.C8  
Gene No. 58122 Strand -  
Start 8505 End 9508  
Name OJ000250\_96.0228.C8.o4.tc Method TBLASTX:Cress  
Start 3001 End 3579  
GI none Score 89  
Exons 3001..3054, 3002..3058, 3003..3059, 3057..3188, 3060..3188,  
3061..3189, 3062..3190, 3191..3472, 3194..3460, 3196..3468,  
3196..3477, 3472..3504, 3476..3505, 3508..3579, 3512..3574

Seq. No. 28247 Seq. ID OJ000250\_96.0228.C8  
Gene No. 58122 Strand -  
Start 8505 End 9508  
Name OJ000250\_96.0228.C8.o13.tm Method TBLASTX:Maize  
Start 3421 End 3573  
GI none Score 89  
Exons 3421..3474, 3421..3468, 3422..3490, 3469..3528, 3475..3528,  
3476..3529, 3476..3529, 3529..3573, 3532..3573

Seq. No. 28247 Seq. ID OJ000250\_96.0228.C8  
Gene No. 58122 Strand -  
Start 8505 End 9508  
Name OJ000250\_96.0228.C8.o6.tw Method TBLASTX:Wheat  
Start 3434 End 3835  
GI none Score 86  
Exons 3434..3508, 3435..3485, 3436..3486, 3455..3670, 3467..3670,  
3664..3810, 3689..3832, 3710..3835

Seq. No. 28247 Seq. ID OJ000250\_96.0228.C8  
Gene No. 58122 Strand -  
Start 8505 End 9508  
Name OJ000250\_96.0228.C8.o12.tm Method TBLASTX:Maize  
Start 3627 End 4017  
GI none Score 64  
Exons 3627..3680, 3631..3687, 3632..3685, 3660..3752, 3692..3748,  
3746..3787, 3759..3824, 3764..3826, 3767..3829, 3833..3910,  
3834..3905, 3835..3906, 3917..4009, 3940..4017, 3942..4004

Seq. No. 28247 Seq. ID OJ000250\_96.0228.C8  
Gene No. 58122 Strand -  
Start 8505 End 9508  
Name OJ000250\_96.0228.C8.o3.tw Method TBLASTX:Wheat  
Start 4197 End 4793  
GI none Score 136  
Exons 4197..4325, 4201..4326, 4202..4297, 4204..4326, 4350..4391,  
4365..4430, 4384..4467, 4389..4466, 4441..4518, 4470..4517,  
4470..4520, 4471..4518, 4503..4628, 4504..4629, 4508..4627,  
4516..4629, 4617..4793, 4622..4792

Seq. No. 28247 Seq. ID OJ000250\_96.0228.C8  
Gene No. 58122 Strand -  
Start 8505 End 9508  
Name OJ000250\_96.0228.C8.o2.tm Method TBLASTX:Maize

Start	4359	End	5102
GI	none	Score	139
Exons	4359..4517, 4384..4509, 4386..4535, 4391..4531, 4504..4590, 4505..4588, 4584..4754, 4584..4754, 4586..4756, 4771..4803, 4772..4825, 4798..4824, 4806..4835, 4821..4892, 4822..4929, 4823..4891, 4887..5102, 4889..5095, 4890..5096		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o8.tc	Method	TBLASTX:Cress
Start	4686	End	5028
GI	none	Score	74
Exons	4686..4772, 4688..4753, 4828..4893, 4831..4893, 4893..5027, 4903..5028, 4914..5024		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o6.ts	Method	TBLASTX:Soybean
Start	4828	End	5043
GI	none	Score	146
Exons	4828..4893, 4887..5036, 4887..5042, 4888..5043		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o7.tw	Method	TBLASTX:Wheat
Start	5564	End	5952
GI	none	Score	83
Exons	5564..5623, 5565..5642, 5606..5644, 5667..5915, 5671..5937, 5677..5952		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o5.tm	Method	TBLASTX:Maize
Start	5649	End	5964
GI	none	Score	380
Exons	5649..5957, 5650..5964, 5650..5964		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o5.ts	Method	TBLASTX:Soybean
Start	5723	End	7086
GI	none	Score	168
Exons	5723..5830, 5725..5877, 5725..5877, 6273..6437, 6283..6513, 6296..6526, 6310..6513, 6749..6805, 6776..6847, 6778..6840, 6784..6828, 6835..6897, 6907..7077, 6908..7078, 6909..7073, 6909..7082, 6925..7086		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o12.tc	Method	TBLASTX:Cress
Start	5726	End	5886

GI	none	Score	165
Exons	5726..5830, 5728..5877, 5728..5886		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o8.tm	Method	TBLASTX:Maize
Start	6137	End	6484
GI	none	Score	94
Exons	6137..6205, 6147..6230, 6237..6446, 6248..6484, 6280..6480, 6290..6484		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o7.tc	Method	TBLASTX:Cress
Start	6296	End	7229
GI	none	Score	280
Exons	6296..6514, 6313..6513, 6781..6828, 6805..6897, 6909..7073, 6909..7073, 6925..7086, 7131..7229		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o9.tc	Method	TBLASTX:Cress
Start	7828	End	8405
GI	none	Score	37
Exons	7828..7857, 7894..7929, 7897..7926, 7919..7978, 7932..7979, 8015..8101, 8016..8090, 8017..8091, 8106..8144, 8107..8205, 8108..8251, 8190..8252, 8288..8332, 8291..8332, 8361..8405		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o4.ts	Method	TBLASTX:Soybean
Start	7924	End	8973
GI	none	Score	73
Exons	7924..7974, 7932..7982, 8008..8049, 8012..8089, 8013..8039, 8051..8095, 8085..8153, 8106..8150, 8107..8160, 8150..8215, 8156..8248, 8157..8249, 8190..8261, 8344..8409, 8344..8403, 8351..8404, 8457..8618, 8460..8636, 8462..8638, 8485..8619, 8621..8665, 8639..8665, 8816..8971, 8816..8971, 8824..8973		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o10.tm	Method	TBLASTX:Maize
Start	8315	End	8505
GI	none	Score	62
Exons	8315..8341, 8317..8343, 8317..8343, 8342..8503, 8343..8504, 8345..8503, 8346..8504, 8347..8505		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o1.tm	Method	TBLASTX:Maize
Start	8505	End	9508

GI	none	Score	230
Exons	8505..8636, 8505..8636, 8506..8637, 8506..8637, 8624..8668, 8630..8668, 8669..8692, 8670..8696, 8699..9508, 8705..9487		
Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o3.gp	Method	AAT/GAP
Start	8505	End	8672
GI	LIB3431-017-P1-K1-H4	Score	283
Exons	8505..8672		
GI Descrip.	'1173189/sp P12340 RR12_MAIZE 8.0e-18 CHLOROPLAST 30S RIBOSOMAL PROTEIN S12 >gi_2119091_pir_S58629 ribosomal protein S12 - maize chloroplast >gi_342619 (M17841) ribosomal protein S12 [Zea mays] >gi_1216141_emb_CAA60309_ (X86563) ribosomal protein S12 [Zea mays]'		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o3.ts	Method	TBLASTX:Soybean
Start	8975	End	9465
GI	none	Score	374
Exons	8975..9403, 8985..9404, 8986..9423, 9232..9423, 9442..9465		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58122	Strand	-
Start	8505	End	9508
Name	OJ000250_96.0228.C8.o5.tc	Method	TBLASTX:Cress
Start	8993	End	9423
GI	none	Score	351
Exons	8993..9403, 8994..9404, 9037..9423		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58123	Strand	-
Start	9721	End	10169
Name	OJ000250_96.0228.C8.o6.tm	Method	TBLASTX:Maize
Start	9721	End	10011
GI	none	Score	167
Exons	9721..9837, 9721..9837, 9722..9850, 9828..10010, 9840..10007, 9841..10011		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58123	Strand	-
Start	9721	End	10169
Name	OJ000250_96.0228.C8.o13.tc	Method	TBLASTX:Cress
Start	9890	End	10169
GI	none	Score	166
Exons	9890..10162, 9903..10169		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58124	Strand	-
Start	10346	End	11306
Name	OJ000250_96.0228.C8.o2.tc	Method	TBLASTX:Cress
Start	10346	End	10896
GI	none	Score	206
Exons	10346..10492, 10347..10514, 10353..10493, 10488..10892,		



10491..10892, 10532..10888, 10681..10896

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58124	Strand	
Start	10346	End	11306
Name	OJ000250_96.0228.C8.o1.tw	Method	TBLASTX:Wheat
Start	10454	End	10885
GI	none	Score	691
Exons	10454..10498, 10455..10883, 10455..10883, 10532..10885, 10681..10884		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58124	Strand	
Start	10346	End	11306
Name	OJ000250_96.0228.C8.o11.tm	Method	TBLASTX:Maize
Start	10491	End	10700
GI	none	Score	221
Exons	10491..10631, 10492..10629, 10635..10700		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58124	Strand	
Start	10346	End	11306
Name	OJ000250_96.0228.C8.o2.ts	Method	TBLASTX:Soybean
Start	10563	End	11007
GI	none	Score	694
Exons	10563..11003, 10564..11007, 10564..10869, 10565..11002, 10906..11007		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58124	Strand	
Start	10346	End	11306
Name	OJ000250_96.0228.C8.o4.tm	Method	TBLASTX:Maize
Start	10702	End	11017
GI	none	Score	567
Exons	10702..10869, 10703..11017, 10704..11015		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58124	Strand	
Start	10346	End	11306
Name	OJ000250_96.0228.C8.o3.tc	Method	TBLASTX:Cress
Start	10899	End	11306
GI	none	Score	686
Exons	10899..11306, 10899..11306		

Seq. No.	28247	Seq. ID	OJ000250_96.0228.C8
Gene No.	58125	Strand	
Start	11391	End	11716
Name	OJ000250_96.0228.C8.o11.tc	Method	TBLASTX:Cress
Start	11391	End	11716
GI	none	Score	75
Exons	11391..11474, 11394..11471, 11395..11475, 11396..11476, 11508..11588, 11508..11588, 11587..11709, 11588..11680, 11588..11716		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58126	Strand	+
Start	1267	End	1773

Name	OJ000250_96.0228.C9.o3.gp	Method	AAT/GAP
Start	1267	End	1773
GI	uC-osflcyp011b01b1	Score	987
Exons	1267..1773		
GI Descrip.	'343210 5.0e-78 (M35995) apocytochrome b6 (alt.) [Oryza sativa] >gi_226762_prf_1604469A cytochrome b6 [Oryza sativa]'		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58127	Strand	+
Start	7793	End	8897
Name	OJ000250_96.0228.C9.o8.gp	Method	AAT/GAP
Start	7793	End	8897
GI	2291_1.R1084	Score	2153
Exons	7793..8897		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 3.0e-27 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf_1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58128	Strand	+
Start	8912	End	10384
Name	OJ000250_96.0228.C9.o9.gp	Method	AAT/GAP
Start	8912	End	10384
GI	3073_1.R1084	Score	2931
Exons	8912..10384		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf_1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58129	Strand	-
Start	366	End	817
Name	OJ000250_96.0228.C9.o1.gp	Method	AAT/GAP
Start	366	End	817
GI	uC-osflcyp003h11b1	Score	872
Exons	366..817		
GI Descrip.	'131332/sp P09449 PSBH_ORYSA 1.0e-09 PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi_72716_pir_F2RZOP photosystem II phosphoprotein psbH - rice chloroplast >gi_11953_emb_CAA31204_ (X12695) 10 kD phosphoprotein (AA 1 - 73) [Oryza sativa] >gi_12016_emb_CAA33976_ (X15901) PSII 10kDa phosphoprotein [Oryza sativa] >gi_226635_prf_1603356BJ photosystem II 10kD phosphoprotein [Oryza sativa]'		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58130	Strand	-
Start	947	End	1110
Name	OJ000250_96.0228.C9.o2.gp	Method	AAT/GAP
Start	947	End	1110
GI	uC-osflcyp084g07a1	Score	201
Exons	947..1110		
GI Descrip.	'11957/emb X15901 CHOSXX 7.0e-38 Rice complete chloroplast genome'		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58131	Strand	-
Start	4248	End	4813
Name	OJ000250_96.0228.C9.o4.gp	Method	AAT/GAP
Start	4248	End	4813
GI	2798177	Score	1010
Exons	4248..4813		
GI Descrip.	5881726/dbj BAA84417.1  3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58132	Strand	-
Start	5596	End	5986
Name	OJ000250_96.0228.C9.o5.gp	Method	AAT/GAP
Start	5596	End	5986
GI	5003883	Score	782
Exons	5596..5986		
GI Descrip.	11957/emb X15901 CHOSXX 1.0e-166 Rice complete chloroplast genome		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58133	Strand	-
Start	6557	End	7142
Name	OJ000250_96.0228.C9.o6.gp	Method	AAT/GAP
Start	6557	End	7142
GI	481 1.R1084	Score	1023
Exons	6557..7142		
GI Descrip.	'132672/sp P12137 RK14_ORYSA 6.0e-57 CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 >gi_71224_pir_R5RZ14 ribosomal protein L14 - rice chloroplast >gi_12023_emb_CAA33932_ (X15901) ribosomal protein L14 [Oryza sativa] >gi_226644_prf_1603356BU ribosomal protein L14 [Oryza sativa]'		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o6.ts	Method	TBLASTX:Soybean
Start	2	End	599
GI	none	Score	148
Exons	2..121, 5..139, 6..140, 7..141, 177..236, 188..226, 226..363, 241..333, 242..463, 243..476, 441..467, 548..598, 549..599		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o2.tc	Method	TBLASTX:Cress
Start	2	End	2283
GI	none	Score	143
Exons	2..121, 6..185, 7..195, 196..222, 197..235, 237..401, 238..333, 242..463, 243..476, 547..573, 1404..1898, 1407..2054, 1409..2071, 1415..2053, 2107..2178, 2109..2177, 2112..2186, 2230..2283, 2230..2283		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611

Name	OJ000250_96.0228.C9.o7.tm	Method	TBLASTX:Maize
Start	7	End	770
GI	none	Score	384
Exons	7..240, 7..240, 8..241, 241..363, 242..511, 242..517, 243..512, 418..528, 497..574, 508..573, 508..579, 549..578, 566..616, 566..616, 567..617, 607..738, 618..650, 622..702, 696..737, 744..770		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o9.tw	Method	TBLASTX:Wheat
Start	89	End	337
GI	none	Score	229
Exons	89..241, 91..240, 256..324, 257..325, 257..337, 258..326, 259..327		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o2.ts	Method	TBLASTX:Soybean
Start	900	End	2146
GI	none	Score	57
Exons	900..944, 946..999, 948..998, 1006..1044, 1008..1040, 1325..1369, 1326..1388, 1326..1385, 1365..2081, 1377..1898, 1415..2080, 2110..2139, 2111..2146		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o6.tm	Method	TBLASTX:Maize
Start	1410	End	2054
GI	none	Score	967
Exons	1410..2054, 1413..1880, 1472..2053		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o12.tm	Method	TBLASTX:Maize
Start	2220	End	2461
GI	none	Score	290
Exons	2220..2414, 2221..2415, 2221..2412, 2416..2460, 2417..2458, 2417..2461		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o4.ts	Method	TBLASTX:Soybean
Start	2369	End	3931
GI	none	Score	75
Exons	2369..2461, 2369..2488, 2464..2610, 2520..2609, 2626..2652, 2729..2776, 2735..2776, 2888..3343, 2906..3475, 2913..3452, 2913..3479, 2923..3477, 3383..3481, 3500..3580, 3523..3579, 3735..3911, 3737..3931		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-

Start	7447	End	12611
Name	OJ000250_96.0228.C9.o10.tc	Method	TBLASTX:Cress
Start	2905	End	3152
GI	none	Score	367
Exons	2905..3000, 2906..3151, 2919..3152		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o12.tc	Method	TBLASTX:Cress
Start	3153	End	3358
GI	none	Score	316
Exons	3153..3356, 3153..3356, 3155..3358		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o13.tc	Method	TBLASTX:Cress
Start	3758	End	4200
GI	none	Score	36
Exons	3758..3823, 3809..3847, 3814..3852, 3864..3908, 3951..4187, 3960..4187, 4006..4200, 4058..4189, 4069..4200		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o3.ts	Method	TBLASTX:Soybean
Start	3951	End	4715
GI	none	Score	523
Exons	3951..4661, 3951..4715, 3958..4686, 4022..4708		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o8.tm	Method	TBLASTX:Maize
Start	4149	End	4623
GI	none	Score	587
Exons	4149..4622, 4149..4622, 4150..4623		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o4.tc	Method	TBLASTX:Cress
Start	4443	End	5030
GI	none	Score	139
Exons	4443..4715, 4446..4661, 4447..4686, 4698..4757, 4730..4774, 4730..4774, 4735..4776, 4757..4930, 4763..4897, 4767..4931, 4771..4932, 4771..4941, 4800..4955, 4932..5030, 4934..5029		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o13.tm	Method	TBLASTX:Maize
Start	4631	End	4893
GI	none	Score	51
Exons	4631..4705, 4650..4709, 4651..4689, 4652..4705, 4759..4887, 4772..4888, 4772..4888, 4774..4893, 4800..4892		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o9.tm	Method	TBLASTX:Maize
Start	4910	End	5198
GI	none	Score	188
Exons	4910..5023, 4911..5027, 4911..5027, 5026..5196, 5028..5198		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o8.ts	Method	TBLASTX:Soybean
Start	4985	End	5237
GI	none	Score	91
Exons	4985..5077, 4986..5156, 4995..5156, 4996..5157, 5136..5237, 5137..5229, 5141..5230		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o1.tm	Method	TBLASTX:Maize
Start	5199	End	6715
GI	none	Score	83
Exons	5199..5252, 5199..5249, 5222..5305, 5223..5303, 5242..5304, 5261..5332, 5316..5333, 5350..5589, 5353..5574, 5597..5875, 5613..5876, 5617..5877, 5625..5675, 5649..5927, 5660..5938, 5882..5923, 5883..5921, 5885..5965, 5973..6017, 5978..6031, 5980..6030, 6049..6132, 6050..6697, 6050..6580, 6069..6713, 6280..6714, 6653..6715		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o9.ts	Method	TBLASTX:Soybean
Start	5682	End	5871
GI	none	Score	174
Exons	5682..5867, 5683..5871		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o3.tw	Method	TBLASTX:Wheat
Start	5973	End	6431
GI	none	Score	45
Exons	5973..6017, 5979..6017, 5980..6030, 6028..6048, 6049..6129, 6050..6424, 6069..6422, 6069..6431, 6154..6423		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o1.ts	Method	TBLASTX:Soybean
Start	6062	End	11767
GI	none	Score	158
Exons	6062..6226, 6062..6274, 6069..6278, 6069..6296, 6269..6475, 6285..6476, 6289..6597, 6291..6512, 6510..6536, 6553..6618, 6604..6906, 6615..6905, 6724..6918, 6894..6995, 6901..7020,		

7081..7314, 7097..7459, 7097..7492, 7111..7500, 7116..7502,  
 7363..7497, 8726..9106, 8727..9095, 9110..9217, 9280..9414,  
 9281..9430, 9281..9430, 9340..9435, 9425..9454, 10035..10187,  
 10039..10272, 10049..10273, 10049..10273, 10277..10303,  
 10278..10301, 10498..10842, 10551..10841, 10552..10881,  
 10607..10846, 10787..10996, 10814..11011, 10914..11012,  
 10983..11129, 10998..11096, 11088..11132, 11090..11131,  
 11091..11132, 11132..11311, 11134..11310, 11135..11362,  
 11316..11393, 11317..11394, 11372..11767, 11386..11679

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o5.tc	Method	TBLASTX:Cress
Start	6062	End	6582
GI	none	Score	156
Exons	6062..6274, 6065..6235, 6069..6266, 6269..6478, 6282..6476, 6291..6485, 6296..6484, 6500..6541, 6501..6533, 6544..6582		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o7.tw	Method	TBLASTX:Wheat
Start	6503	End	6867
GI	none	Score	60
Exons	6503..6538, 6504..6542, 6512..6580, 6522..6578, 6524..6580, 6589..6867, 6589..6864, 6606..6866		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o9.tc	Method	TBLASTX:Cress
Start	6608	End	6995
GI	none	Score	114
Exons	6608..6808, 6609..6812, 6616..6813, 6813..6860, 6813..6905, 6814..6906, 6881..6913, 6894..6995, 6901..6993		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o5.tm	Method	TBLASTX:Maize
Start	6756	End	8595
GI	none	Score	75
Exons	6756..6800, 6757..6801, 6757..6801, 6801..7136, 6801..7502, 6802..7497, 8539..8595		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o5.tw	Method	TBLASTX:Wheat
Start	7020	End	7411
GI	none	Score	80
Exons	7020..7073, 7021..7074, 7022..7072, 7024..7077, 7027..7410, 7028..7411		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-

Start	7447	End	12611
Name	OJ000250_96.0228.C9.o6.tc	Method	TBLASTX:Cress
Start	7029	End	7502
GI	none	Score	48
Exons	7029..7061, 7135..7200, 7180..7500, 7181..7456, 7191..7502, 7195..7494		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o8.tw	Method	TBLASTX:Wheat
Start	7443	End	7848
GI	none	Score	131
Exons	7443..7517, 7444..7518, 7444..7518, 7488..7613, 7514..7618, 7518..7613, 7523..7648, 7632..7655, 7633..7698, 7634..7657, 7656..7703, 7688..7768, 7699..7761, 7815..7847, 7816..7848		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o7.gp	Method	AAT/GAP
Start	7447	End	7710
GI	LIB3432-015-P1-K1-H8	Score	450
Exons	7447..7710		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-129 Rice complete chloroplast genome'		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o10.tm	Method	TBLASTX:Maize
Start	7812	End	8135
GI	none	Score	352
Exons	7812..8060, 7813..8061, 7820..8131, 7823..8116, 8067..8135		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o7.tc	Method	TBLASTX:Cress
Start	7851	End	9085
GI	none	Score	49
Exons	7851..7892, 7859..7879, 7911..7973, 7929..7973, 7966..8055, 7970..8062, 8183..8209, 8205..8249, 8358..8420, 8531..8572, 8542..8589, 8662..8904, 8669..9040, 8711..9085, 8712..9068		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o4.tw	Method	TBLASTX:Wheat
Start	7935	End	8569
GI	none	Score	71
Exons	7935..7997, 7935..8093, 7936..8085, 7937..8113, 8060..8146, 8061..8147, 8070..8144, 8083..8145, 8132..8245, 8141..8248, 8146..8253, 8255..8464, 8263..8442, 8322..8492, 8332..8502, 8346..8492, 8522..8569, 8536..8568		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
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Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o11.tm	Method	TBLASTX:Maize
Start	8176	End	8499
GI	none	Score	59
Exons	8176..8205, 8177..8209, 8202..8243, 8202..8249, 8206..8244, 8206..8304, 8207..8464, 8207..8377, 8334..8492, 8335..8442, 8338..8499, 8346..8480, 8432..8491		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o2.tm	Method	TBLASTX:Maize
Start	8639	End	10401
GI	none	Score	37
Exons	8639..8671, 8648..9220, 8650..8868, 8663..9061, 8670..9218, 9113..9220, 9173..9451, 9215..9454, 9434..9892, 9446..9892, 9840..9953, 9884..9958, 9901..9957, 9903..10007, 9972..10190, 9991..10305, 10000..10269, 10007..10306, 10236..10310, 10242..10310, 10271..10360, 10297..10356, 10299..10400, 10299..10400, 10312..10401		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o1.tw	Method	TBLASTX:Wheat
Start	9120	End	9886
GI	none	Score	134
Exons	9120..9254, 9122..9454, 9122..9451, 9485..9883, 9491..9886		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o8.tc	Method	TBLASTX:Cress
Start	9316	End	9832
GI	none	Score	129
Exons	9316..9414, 9317..9427, 9324..9428, 9331..9429, 9478..9585, 9500..9796, 9509..9832		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o7.ts	Method	TBLASTX:Soybean
Start	9507	End	9835
GI	none	Score	137
Exons	9507..9797, 9509..9835, 9521..9802		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o3.tc	Method	TBLASTX:Cress
Start	10174	End	11062
GI	none	Score	92
Exons	10174..10272, 10175..10273, 10177..10266, 10412..10462, 10413..10463, 10413..10490, 10414..10470, 10464..10493, 10464..10493, 10465..10494, 10550..10717, 10551..10670, 10552..10719, 10552..10722, 10607..10723, 10733..10981,		

10737..10976, 10745..11062, 10914..10982

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o3.tm	Method	TBLASTX:Maize
Start	10583	End	11408
GI	none	Score	1245
Exons	10583..11404, 10584..11405, 10607..11404, 10914..11408		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o6.tw	Method	TBLASTX:Wheat
Start	10723	End	11030
GI	none	Score	448
Exons	10723..11028, 10724..11029, 10724..11029, 10914..11030		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o1.tc	Method	TBLASTX:Cress
Start	11316	End	12535
GI	none	Score	79
Exons	11316..11357, 11317..11487, 11318..11491, 11318..11506, 11394..11525, 11511..11624, 11512..11628, 11513..11632, 11636..11845, 11638..12351, 11641..12351, 12338..12436, 12348..12443, 12352..12444, 12356..12442, 12370..12444, 12445..12525, 12449..12535, 12450..12533		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o4.tm	Method	TBLASTX:Maize
Start	11636	End	12411
GI	none	Score	304
Exons	11636..11845, 11638..11886, 11641..11886, 11715..11888, 11822..11887, 11881..12411, 11890..12411		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o5.ts	Method	TBLASTX:Soybean
Start	11768	End	12345
GI	none	Score	107
Exons	11768..11845, 11770..12345, 11772..12029, 11773..12339		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o2.tw	Method	TBLASTX:Wheat
Start	12006	End	12383
GI	none	Score	51
Exons	12006..12032, 12007..12381, 12007..12381, 12008..12382, 12081..12383		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
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Gene No.	58134	Strand	-
Start	7447	End	12611
Name	OJ000250_96.0228.C9.o10.tw	Method	TBLASTX:Wheat
Start	12384	End	12611
GI	none	Score	98
Exons	12384..12443, 12386..12442, 12450..12611, 12465..12611		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58135	Strand	
Start	12765	End	13173
Name	OJ000250_96.0228.C9.o11.tc	Method	TBLASTX:Cress
Start	12765	End	13173
GI	none	Score	61
Exons	12765..12809, 12769..12804, 12796..12957, 12810..12959, 12811..12957, 12944..13039, 12954..13040, 12954..13067, 12955..13041, 13042..13173, 13044..13124, 13051..13131		

Seq. No.	28248	Seq. ID	OJ000250_96.0228.C9
Gene No.	58136	Strand	
Start	13121	End	13300
Name	OJ000250_96.0228.C9.o10.ts	Method	TBLASTX:Soybean
Start	13121	End	13300
GI	none	Score	52
Exons	13121..13150, 13123..13146, 13156..13296, 13160..13300		

Seq. No.	28249	Seq. ID	OJ000250_96.0228.C11
Gene No.	58138	Strand	-
Start	1899	End	2388
Name	OJ000250_96.0228.C11.o2.ts	Method	TBLASTX:Soybean
Start	1306	End	1532
GI	none	Score	347
Exons	1306..1530, 1306..1530, 1308..1532		

Seq. No.	28249	Seq. ID	OJ000250_96.0228.C11
Gene No.	58138	Strand	-
Start	1899	End	2388
Name	OJ000250_96.0228.C11.o1.ts	Method	TBLASTX:Soybean
Start	1533	End	1985
GI	none	Score	448
Exons	1533..1850, 1534..1851, 1537..1851, 1565..1852, 1838..1915, 1855..1914, 1868..1984, 1870..1983, 1899..1985, 1899..1985		

Seq. No.	28249	Seq. ID	OJ000250_96.0228.C11
Gene No.	58138	Strand	-
Start	1899	End	2388
Name	OJ000250_96.0228.C11.o1.gp	Method	AAT/GAP
Start	1899	End	2388
GI	183 1.R1084	Score	956
Exons	1899..2388		

GI Descrip. '131251/sp|P12094|PSBA\_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN  
(32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1)  
>gi\_72661\_pir\_FMRZ32 photosystem II protein D1 precursor - rice  
chloroplast >gi\_11958\_emb\_CAA34007\_(X15901) PSII 32kDa protein  
[Oryza sativa] >gi\_343212\_(M36191)\_Q-B protein (psbA) [Oryza  
sativa] >gi\_226249\_prf\_1503143A psbA gene [Oryza sativa]  
>gi\_226406\_prf\_15'

Seq. No.	28249	Seq. ID	OJ000250_96.0228.C11
Gene No.	58138	Strand	-
Start	1899	End	2388
Name	OJ000250_96.0228.C11.o1.tm	Method	TBLASTX:Maize
Start	2043	End	2388
GI	none	Score	563
Exons	2043..2387, 2068..2388, 2071..2388		

Seq. No.	28249	Seq. ID	OJ000250_96.0228.C11
Gene No.	58138	Strand	-
Start	1899	End	2388
Name	OJ000250_96.0228.C11.o3.ts	Method	TBLASTX:Soybean
Start	2098	End	2387
GI	none	Score	59
Exons	2098..2145, 2101..2142, 2141..2371, 2145..2387, 2146..2385		

Seq. No.	28249	Seq. ID	OJ000250_96.0228.C11
Gene No.	58138	Strand	-
Start	1899	End	2388
Name	OJ000250_96.0228.C11.o1.tc	Method	TBLASTX:Cress
Start	2110	End	2387
GI	none	Score	47
Exons	2110..2145, 2113..2142, 2141..2371, 2145..2387, 2146..2373		

Seq. No.	28250	Seq. ID	OJ000250_96.0228.C12
Gene No.	58139	Strand	-
Start	1	End	1566
Name	OJ000250_96.0228.C12.o1.gp	Method	AAT/GAP
Start	1	End	575
GI	183_5.R1084	Score	1114
Exons	1..575		
GI Descrip.	'133999/sp P05424 RR7_ORYSA 1.0e-48 CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 >gi_70904_pir_R3RZ7 ribosomal protein S7 - rice chloroplast >gi_12037_emb_CAA33942_(X15901) ribosomal protein S7 [Oryza sativa] >gi_12065_emb_CAA33919_(X15901) ribosomal protein S7 [Oryza sativa] >gi_226657_prf_1603356CH ribosomal protein S7 [Oryza sativa]'		

Seq. No.	28250	Seq. ID	OJ000250_96.0228.C12
Gene No.	58139	Strand	-
Start	1	End	1566
Name	OJ000250_96.0228.C12.o1.ts	Method	TBLASTX:Soybean
Start	1	End	767
GI	none	Score	38
Exons	1..24, 31..66, 54..116, 189..254, 191..256, 249..275, 250..276, 283..387, 310..387, 395..487, 414..470, 502..540, 646..756, 648..767, 648..758		

Seq. No.	28250	Seq. ID	OJ000250_96.0228.C12
Gene No.	58139	Strand	-
Start	1	End	1566
Name	OJ000250_96.0228.C12.o1.tm	Method	TBLASTX:Maize
Start	1	End	573
GI	none	Score	209
Exons	1..126, 1..132, 41..142, 188..271, 189..272, 214..273, 266..565, 268..573, 271..573		

Seq. No.	28250	Seq. ID	OJ000250_96.0228.C12
Gene No.	58139	Strand	-
Start	1	End	1566
Name	OJ000250_96.0228.C12.o2.tc	Method	TBLASTX:Cress
Start	193	End	414
GI	none	Score	40
Exons	193..228, 218..259, 230..262, 252..389, 253..396, 254..385, 255..386, 391..414		

Seq. No.	28250	Seq. ID	OJ000250_96.0228.C12
Gene No.	58139	Strand	-
Start	1	End	1566
Name	OJ000250_96.0228.C12.o1.tc	Method	TBLASTX:Cress
Start	415	End	1566
GI	none	Score	110
Exons	415..510, 415..501, 508..534, 508..534, 510..539, 648..746, 655..738, 662..739, 703..774, 793..870, 794..874, 795..875, 867..938, 870..938, 871..939, 894..1001, 908..976, 940..1002, 998..1129, 1018..1134, 1020..1127, 1024..1182, 1074..1181, 1123..1182, 1200..1247, 1201..1377, 1202..1384, 1285..1386, 1287..1385, 1411..1470, 1413..1472, 1415..1486, 1424..1477, 1479..1565, 1480..1566, 1481..1564		

Seq. No.	28250	Seq. ID	OJ000250_96.0228.C12
Gene No.	58139	Strand	-
Start	1	End	1566
Name	OJ000250_96.0228.C12.o2.tm	Method	TBLASTX:Maize
Start	1419	End	1547
GI	none	Score	90
Exons	1419..1538, 1420..1545, 1420..1542, 1421..1543, 1422..1547		

Seq. No.	28251	Seq. ID	OJ000250_96.0228.C13
Gene No.	58140	Strand	+
Start	41	End	633
Name	OJ000250_96.0228.C13.o1.tc	Method	TBLASTX:Cress
Start	1	End	633
GI	none	Score	431
Exons	1..429, 3..386, 10..429, 194..430, 557..622, 561..632, 561..629, 562..633		

Seq. No.	28252	Seq. ID	OJ000250_96.0228.C15
Gene No.	58142	Strand	
Start	13	End	186
Name	OJ000250_96.0228.C15.o2.ts	Method	TBLASTX:Soybean
Start	13	End	186
GI	none	Score	188
Exons	13..183, 30..185, 35..184, 37..186		

Seq. No.	28252	Seq. ID	OJ000250_96.0228.C15
Gene No.	58143	Strand	
Start	187	End	680
Name	OJ000250_96.0228.C15.o1.tc	Method	TBLASTX:Cress
Start	187	End	596
GI	none	Score	125
Exons	187..264, 190..297, 191..301, 191..307, 198..341, 281..451, 302..451, 306..458, 449..574, 460..570, 468..596		

Seq. No.	28252	Seq. ID	OJ000250_96.0228.C15
Gene No.	58143	Strand	
Start	187	End	680
Name	OJ000250_96.0228.C15.o1.ts	Method	TBLASTX:Soybean
Start	188	End	680
GI	none	Score	161
Exons	188..301, 198..302, 281..451, 302..451, 303..461, 449..574, 460..570, 462..581, 463..591, 660..680		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58144	Strand	+
Start	344	End	812
Name	OJ000250_96.0228.C16.o1.gp	Method	AAT/GAP
Start	344	End	812
GI	uC-osflcyp097b05b1	Score	898
Exons	344..812		
GI Descrip.	'140503/sp P12173 YCTI_ORYSA 3.0e-39 HYPOTHETICAL 14 KD PROTEIN IN TRNI INTRON (ORF 133) >gi_82518_pir_JQ0279 hypothetical 14.5K protein (trnI intron) - rice chloroplast >gi_12041_emb_CAA33945_(X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_12061_emb_CAA33915_(X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_226660_prf_1603356CL trnI intron ORF 133 [Oryza'		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58145	Strand	-
Start	1458	End	2399
Name	OJ000250_96.0228.C16.o2.gp	Method	AAT/GAP
Start	1458	End	2399
GI	688_1.R1084	Score	1842
Exons	1458..2399		
GI Descrip.	'226661/prf  1603356CM 6.0e-54 trnA intron ORF 109 [Oryza sativa]'		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o4.ts	Method	TBLASTX:Soybean
Start	1	End	348
GI	none	Score	56
Exons	1..33, 1..30, 3..35, 25..126, 33..128, 34..126, 116..181, 119..181, 132..185, 263..298, 264..299, 302..346, 304..348, 309..347		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o4.tc	Method	TBLASTX:Cress
Start	33	End	381
GI	none	Score	129
Exons	33..128, 35..127, 116..202, 132..203, 232..285, 234..281, 255..296, 257..301, 287..316, 294..380, 296..379, 304..381, 334..381		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600

Name	OJ000250_96.0228.C16.o1.tm	Method	TBLASTX:Maize
Start	36	End	533
GI	none	Score	301
Exons	36..227, 36..227, 38..232, 220..300, 234..296, 237..317, 246..512, 275..532, 275..532, 300..533		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o2.ts	Method	TBLASTX:Soybean
Start	758	End	1002
GI	none	Score	199
Exons	758..889, 758..895, 879..929, 879..935, 880..933, 942..1001, 942..1001, 943..1002, 943..1002		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o1.tc	Method	TBLASTX:Cress
Start	1021	End	1578
GI	none	Score	80
Exons	1021..1050, 1049..1138, 1051..1140, 1052..1141, 1116..1409, 1137..1406, 1142..1408, 1397..1576, 1404..1577, 1405..1578, 1405..1578		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o1.ts	Method	TBLASTX:Soybean
Start	1341	End	1977
GI	none	Score	360
Exons	1341..1601, 1343..1585, 1577..1705, 1580..1714, 1584..1730, 1587..1709, 1630..1710, 1699..1905, 1700..1891, 1707..1895, 1890..1976, 1890..1976, 1891..1977, 1891..1977		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o2.tc	Method	TBLASTX:Cress
Start	1591	End	1965
GI	none	Score	155
Exons	1591..1704, 1593..1703, 1630..1704, 1700..1894, 1701..1895, 1702..1905, 1890..1964, 1890..1964, 1891..1965		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o3.tc	Method	TBLASTX:Cress
Start	2076	End	2437
GI	none	Score	40
Exons	2076..2111, 2082..2111, 2083..2115, 2087..2200, 2099..2209, 2112..2210, 2112..2225, 2125..2226, 2173..2310, 2229..2309, 2261..2317, 2269..2310, 2312..2437, 2312..2437		

Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600

Name	OJ000250_96.0228.C16.o3.ts	Method	TBLASTX:Soybean
Start	2229	End	2600
GI	none	Score	133
Exons	2229..2345, 2230..2310, 2261..2317, 2324..2353, 2336..2389, 2349..2402, 2350..2403, 2392..2484, 2395..2472, 2400..2474, 2486..2536, 2487..2549, 2487..2537, 2549..2599, 2574..2600		
Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o3.gp	Method	AAT/GAP
Start	2431	End	2600
GI	2669_1.R1084	Score	283
Exons	2431..2600		
GI Descrip.	'3914470/sp Q40070 PSBR_HORVU 8.0e-26 PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR >gi_1321868_emb_CAA66373_ (X97771) 10kD PSII protein [Hordeum vulgare]'		
Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o2.tm	Method	TBLASTX:Maize
Start	2437	End	2600
GI	none	Score	262
Exons	2437..2598, 2449..2598, 2451..2600		
Seq. No.	28253	Seq. ID	OJ000250_96.0228.C16
Gene No.	58146	Strand	-
Start	2431	End	2600
Name	OJ000250_96.0228.C16.o5.tc	Method	TBLASTX:Cress
Start	2449	End	2598
GI	none	Score	210
Exons	2449..2598, 2449..2598		
Seq. No.	28254	Seq. ID	OJ000250_96.0228.C17
Gene No.	58147	Strand	-
Start	1	End	637
Name	OJ000250_96.0228.C17.o1.tc	Method	TBLASTX:Cress
Start	1	End	382
GI	none	Score	77
Exons	1..54, 2..79, 3..59, 36..230, 54..233, 55..231, 266..316, 267..317, 305..379, 326..382		
Seq. No.	28254	Seq. ID	OJ000250_96.0228.C17
Gene No.	58147	Strand	-
Start	1	End	637
Name	OJ000250_96.0228.C17.o1.tm	Method	TBLASTX:Maize
Start	133	End	623
GI	none	Score	38
Exons	133..204, 343..570, 343..552, 345..569, 548..622, 549..623, 550..621, 551..622		
Seq. No.	28254	Seq. ID	OJ000250_96.0228.C17
Gene No.	58147	Strand	-
Start	1	End	637
Name	OJ000250_96.0228.C17.o1.ts	Method	TBLASTX:Soybean
Start	314	End	637



GI	none	Score	78
Exons	314..364, 314..364, 316..366, 459..548, 461..550, 464..550, 465..551, 554..637, 555..635		

Seq. No.	28255	Seq. ID	OJ000250_96.0228.C18
Gene No.	58148	Strand	
Start	4	End	709
Name	OJ000250_96.0228.C18.o1.tc	Method	TBLASTX:Cress
Start	4	End	709
GI	none	Score	1105
Exons	4..708, 10..705, 107..709		

Seq. No.	28255	Seq. ID	OJ000250_96.0228.C18
Gene No.	58148	Strand	
Start	4	End	709
Name	OJ000250_96.0228.C18.o1.ts	Method	TBLASTX:Soybean
Start	4	End	708
GI	none	Score	552
Exons	4..450, 15..359, 179..433, 226..468, 469..708, 469..681, 480..704		

Seq. No.	28255	Seq. ID	OJ000250_96.0228.C18
Gene No.	58148	Strand	
Start	4	End	709
Name	OJ000250_96.0228.C18.o1.tm	Method	TBLASTX:Maize
Start	4	End	705
GI	none	Score	548
Exons	4..450, 15..359, 226..468, 469..705, 469..690, 480..704		

Seq. No.	28255	Seq. ID	OJ000250_96.0228.C18
Gene No.	58148	Strand	
Start	4	End	709
Name	OJ000250_96.0228.C18.o1.tw	Method	TBLASTX:Wheat
Start	55	End	702
GI	none	Score	315
Exons	55..318, 63..332, 343..381, 388..450, 469..702, 475..642, 480..698		

Seq. No.	28256	Seq. ID	OJ000250_96.0228.C20
Gene No.	58151	Strand	+
Start	1	End	276
Name	OJ000250_96.0228.C20.o1.gp	Method	AAT/GAP
Start	1	End	276
GI	uC-osflcyp021g10b1	Score	505
Exons	1..276		
GI Descrip.	'131148/sp P12156 PSAB_ORYSA 6.0e-59 PHOTOSYSTEM I P700 CHLOROPHYLL A APOPROTEIN A2 >gi_72674_pir_A2RZP7 photosystem I P700 apoprotein A2 - rice chloroplast >gi_11981_emb_CAA33995_(X15901) PSI P700 apoprotein A2 [Oryza sativa] >gi_226604_prf_1603356AA photosystem I P700 apoprotein A2 [Oryza sativa]'		

Seq. No.	28256	Seq. ID	OJ000250_96.0228.C20
Gene No.	58151	Strand	+
Start	1	End	276
Name	OJ000250_96.0228.C20.o1.ts	Method	TBLASTX:Soybean
Start	1	End	276

GI	none	Score	384
Exons	1..39, 3..275, 82..276		
Seq. No.	28256	Seq. ID	OJ000250_96.0228.C20
Gene No.	58151	Strand	+
Start	1	End	276
Name	OJ000250_96.0228.C20.o1.tc	Method	TBLASTX:Cress
Start	1	End	269
GI	none	Score	370
Exons	1..39, 3..269, 83..235, 84..269		
Seq. No.	28256	Seq. ID	OJ000250_96.0228.C20
Gene No.	58151	Strand	+
Start	1	End	276
Name	OJ000250_96.0228.C20.o1.tm	Method	TBLASTX:Maize
Start	1	End	275
GI	none	Score	405
Exons	1..270, 3..275, 84..275		
Seq. No.	28257	Seq. ID	OJ000250_92.0223.C1
Gene No.	58152	Strand	-
Start	141	End	339
Name	OJ000250_92.0223.C1.o1.gs	Method	GENSCAN
Start	141	End	339
GI	none	Score	.83
Exons	141..339		
Seq. No.	28258	Seq. ID	OJ000250_92.0223.C2
Gene No.	58153	Strand	-
Start	710	End	754
Name	OJ000250_92.0223.C2.o1.gs	Method	GENSCAN
Start	710	End	754
GI	none	Score	.44
Exons	710..754		
Seq. No.	28259	Seq. ID	OJ000250_92.0223.C5
Gene No.	58154	Strand	-
Start	258	End	378
Name	OJ000250_92.0223.C5.o1.gs	Method	GENSCAN
Start	258	End	378
GI	none	Score	1
Exons	258..378		
Seq. No.	28260	Seq. ID	OJ000250_92.0223.C6
Gene No.	58155	Strand	+
Start	1	End	368
Name	OJ000250_92.0223.C6.o1.np	Method	AAT/NAP
Start	1	End	368
GI	2146774	Score	500
Exons	1..368		
GI Descrip.	serine acetyltransferase (EC 2.3.1.30) Sat-52 - Arabidopsis thaliana gi 905391 (U30298) serine acetyltransferase [Arabidopsis thaliana]		
Seq. No.	28260	Seq. ID	OJ000250_92.0223.C6
Gene No.	58155	Strand	+
Start	1	End	368

Name OJ000250\_92.0223.C6.o1.tc  
 Start 3  
 GI none  
 Exons 3..365, 77..151, 212..364

Method TBLASTX:Cress  
 End 365  
 Score 444

Seq. No. 28260  
 Gene No. 58155  
 Start 1  
 Name OJ000250\_92.0223.C6.o1.ts  
 Start 75  
 GI none  
 Exons 75..317, 206..349, 294..365, 317..364

Seq. ID OJ000250\_92.0223.C6  
 Strand +  
 End 368  
 Method TBLASTX:Soybean  
 End 365  
 Score 310

Seq. No. 28260  
 Gene No. 58155  
 Start 1  
 Name OJ000250\_92.0223.C6.o1.gs  
 Start 102  
 GI none  
 Exons 102..338

Seq. ID OJ000250\_92.0223.C6  
 Strand +  
 End 368  
 Method GENSCAN  
 End 338  
 Score .68

Seq. No. 28260  
 Gene No. 58155  
 Start 1  
 Name OJ000250\_92.0223.C6.o1.tm  
 Start 129  
 GI none  
 Exons 129..368, 206..367

Seq. ID OJ000250\_92.0223.C6  
 Strand +  
 End 368  
 Method TBLASTX:Maize  
 End 368  
 Score 397

Seq. No. 28261  
 Gene No. 58156  
 Start 63  
 Name OJ000250\_92.0223.C7.o1.gp  
 Start 63  
 GI uC-osroM202013d02b1  
 Exons 63..221, 423..491  
 GI Descrip. '3831463 1.0e-37 (AC005700) unknown protein [Arabidopsis thaliana]'

Seq. ID OJ000250\_92.0223.C7  
 Strand -  
 End 491  
 Method AAT/GAP  
 End 491  
 Score 400

Seq. No. 28261  
 Gene No. 58156  
 Start 63  
 Name OJ000250\_92.0223.C7.o1.gs  
 Start 63  
 GI none  
 Exons 63..169

Seq. ID OJ000250\_92.0223.C7  
 Strand -  
 End 491  
 Method GENSCAN  
 End 169  
 Score .94

Seq. No. 28262  
 Gene No. 58157  
 Start 2018  
 Name OJ000250\_92.0223.C9.o2.gs  
 Start 2018  
 GI none  
 Exons 2018..2262, 2764..2866, 4396..4524, 5041..5139, 6770..7094, 7151..7242

Seq. ID OJ000250\_92.0223.C9  
 Strand -  
 End 7242  
 Method GENSCAN  
 End 7242  
 Score .58

Seq. No. 28262

Seq. ID OJ000250\_92.0223.C9

Gene No.	58157	Strand	-
Start	2018	End	7242
Name	OJ000250_92.0223.C9.o1.gp	Method	AAT/GAP
Start	4857	End	6948
GI	none	Score	846
Exons	4857..5139, 6770..6948		
Seq. No.	28262	Seq. ID	OJ000250_92.0223.C9
Gene No.	58158	Strand	-
Start	7811	End	8079
Name	OJ000250_92.0223.C9.o3.gs	Method	GENSCAN
Start	7811	End	8079
GI	none	Score	.64
Exons	7811..7989, 8034..8079		
Seq. No.	28263	Seq. ID	OJ000250_92.0223.C10
Gene No.	58159	Strand	+
Start	36	End	3536
Name	OJ000250_92.0223.C10.o1.gs	Method	GENSCAN
Start	36	End	3536
GI	none	Score	.76
Exons	36..137, 862..889, 921..1003, 1284..1358, 1431..1502, 1673..1753, 1935..2032, 2683..2808, 2920..2968, 3341..3536		
Seq. No.	28263	Seq. ID	OJ000250_92.0223.C10
Gene No.	58160	Strand	-
Start	1	End	276
Name	OJ000250_92.0223.C10.o1.gp	Method	AAT/GAP
Start	1	End	276
GI	none	Score	516
Exons	1..276		
Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58161	Strand	+
Start	2	End	160
Name	OJ000250_92.0223.C11.o1.gs	Method	GENSCAN
Start	2	End	160
GI	none	Score	.81
Exons	2..160		
Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58162	Strand	+
Start	3321	End	8932
Name	OJ000250_92.0223.C11.o3.gs	Method	GENSCAN
Start	3321	End	8932
GI	none	Score	.61
Exons	3321..3348, 3528..3641, 4046..4050, 4383..4478, 4652..4936, 5726..5782, 5949..7005, 7692..7919, 8730..8932		
Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58162	Strand	+
Start	3321	End	8932
Name	OJ000250_92.0223.C11.o1.gp	Method	AAT/GAP
Start	4380	End	4813
GI	49767_1.R1084	Score	444
Exons	4380..4509, 4652..4813		
GI Descrip.	'5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945)		

corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58162	Strand	+
Start	3321	End	8932
Name	OJ000250_92.0223.C11.o2.np	Method	AAT/NAP
Start	4420	End	8149
GI	2947062	Score	357
Exons	4420..4509, 4644..4962, 5095..5307, 5726..5782, 5949..7010, 8068..8149		
GI Descrip.	(AC002521) unknown protein [Arabidopsis thaliana]		

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58162	Strand	+
Start	3321	End	8932
Name	OJ000250_92.0223.C11.o1.np	Method	AAT/NAP
Start	4420	End	8651
GI	2947062	Score	361
Exons	4420..4509, 4644..4962, 5095..5307, 5726..5782, 5949..7009, 8511..8651		
GI Descrip.	(AC002521) unknown protein [Arabidopsis thaliana]		

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58162	Strand	+
Start	3321	End	8932
Name	OJ000250_92.0223.C11.o2.gp	Method	AAT/GAP
Start	4745	End	5298
GI	75888_1.R1084	Score	670
Exons	4745..4936, 5095..5298		
GI Descrip.	'5882749/gb AAD55302.1 AC008263_33 2.0e-21 (AC008263) Contains 2 PF_00612 IQ calmodulin-binding motif domains. [Arabidopsis thaliana]'		

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58162	Strand	+
Start	3321	End	8932
Name	OJ000250_92.0223.C11.o3.gp	Method	AAT/GAP
Start	6769	End	8155
GI	none	Score	1238
Exons	6769..7005, 7718..8155		

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58163	Strand	-
Start	9398	End	9619
Name	OJ000250_92.0223.C11.o1.tm	Method	TBLASTX:Maize
Start	4397	End	8096
GI	none	Score	119
Exons	4397..4498, 4401..4475, 4464..4508, 4465..4509, 4478..4516, 4651..4701, 4658..4798, 4702..4797, 4722..4799, 4802..4951, 4802..4936, 4812..4940, 4837..5013, 5094..5297, 5095..5298, 5095..5298, 5732..5785, 5945..6079, 5955..6080, 5957..6088, 6049..6315, 6081..6323, 6092..6499, 6092..6493, 6093..6539, 6390..6512, 6572..6892, 6597..6899, 6718..6897, 6738..6899, 6894..7004, 6896..7009, 6898..7077, 7713..7748, 7714..7752, 7840..7911, 7842..7880, 7992..8096		

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58163	Strand	-
Start	9398	End	9619
Name	OJ000250_92.0223.C11.o1.tc	Method	TBLASTX:Cress
Start	4419	End	5307
GI	none	Score	84
Exons	4419..4493, 4420..4488, 5092..5307, 5094..5267		

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58163	Strand	-
Start	9398	End	9619
Name	OJ000250_92.0223.C11.o1.ts	Method	TBLASTX:Soybean
Start	4419	End	6904
GI	none	Score	105
Exons	4419..4481, 4420..4503, 4823..4951, 4858..4935, 5094..5231, 5094..5249, 5095..5250, 5946..6095, 5958..6080, 6165..6257, 6225..6380, 6252..6386, 6290..6382, 6743..6904, 6744..6896		

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58163	Strand	-
Start	9398	End	9619
Name	OJ000250_92.0223.C11.o1.tw	Method	TBLASTX:Wheat
Start	6552	End	6968
GI	none	Score	354
Exons	6552..6893, 6597..6896, 6601..6924, 6721..6897, 6894..6968, 6896..6967		

Seq. No.	28264	Seq. ID	OJ000250_92.0223.C11
Gene No.	58163	Strand	-
Start	9398	End	9619
Name	OJ000250_92.0223.C11.o4.gs	Method	GENSCAN
Start	9398	End	9619
GI	none	Score	.96
Exons	9398..9619		

Seq. No.	28265	Seq. ID	OJ000250_92.0223.C12
Gene No.	58164	Strand	+
Start	90	End	1333
Name	OJ000250_92.0223.C12.o1.gs	Method	GENSCAN
Start	90	End	1333
GI	none	Score	.52
Exons	90..194, 247..1074, 1217..1333		

Seq. No.	28265	Seq. ID	OJ000250_92.0223.C12
Gene No.	58164	Strand	+
Start	90	End	1333
Name	OJ000250_92.0223.C12.o1.np	Method	AAT/NAP
Start	265	End	1333
GI	6721562	Score	1513
Exons	265..1333		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1  (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	28265	Seq. ID	OJ000250_92.0223.C12
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Gene No.	58164	Strand	+
Start	90	End	1333
Name	OJ000250_92.0223.C12.o1.tw	Method	TBLASTX:Wheat
Start	922	End	1311
GI	none	Score	54
Exons	922..966, 973..1071, 990..1070, 1038..1277, 1054..1311		

Seq. No.	28265	Seq. ID	OJ000250_92.0223.C12
Gene No.	58164	Strand	+
Start	90	End	1333
Name	OJ000250_92.0223.C12.o1.tm	Method	TBLASTX:Maize
Start	961	End	1209
GI	none	Score	185
Exons	961..1209		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58165	Strand	+
Start	1	End	8556
Name	OJ000250_92.0223.C13.o1.np	Method	AAT/NAP
Start	1	End	8556
GI	6498441	Score	3987
Exons	1..486, 817..1279, 1343..1716, 1900..2034, 2209..2932, 3104..3541, 5327..5404, 8482..8556		

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o6.tw	Method	TBLASTX:Wheat
Start	701	End	6383
GI	none	Score	346
Exons	701..874, 702..1079, 702..1058, 896..1063, 1085..1186, 6285..6383		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o4.tw	Method	TBLASTX:Wheat
Start	1350	End	9409
GI	none	Score	108
Exons	1350..1571, 1351..1806, 1352..1813, 1352..1807, 9179..9409		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o4.ts	Method	TBLASTX:Soybean
Start	1391	End	9364
GI	none	Score	117
Exons	1391..1615, 1622..1756, 9230..9364		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o4.tm	Method	TBLASTX:Maize
Start	1568	End	9476

GI	none	Score	194
Exons	1568..1981, 9005..9472, 9038..9385, 9231..9476		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o1.ts	Method	TBLASTX:Soybean
Start	1892	End	9118
GI	none	Score	144
Exons	1892..2263, 8723..9082, 8724..8966, 8941..9075, 9005..9079, 9086..9118, 9086..9118		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o5.tw	Method	TBLASTX:Wheat
Start	1922	End	9061
GI	none	Score	482
Exons	1922..2344, 1922..2329, 2020..2346, 8708..9061		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o5.tm	Method	TBLASTX:Maize
Start	2000	End	8989
GI	none	Score	174
Exons	2000..2341, 8636..8989, 8718..8978		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o8.tw	Method	TBLASTX:Wheat
Start	2780	End	3238
GI	none	Score	233
Exons	2780..3034, 2804..3055, 2872..3054, 3089..3238, 3100..3237		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o5.ts	Method	TBLASTX:Soybean
Start	2927	End	3475
GI	5666795	Score	68
Exons	2927..3025, 3101..3238, 3293..3475		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o2.gs	Method	GENSCAN
Start	5213	End	11323
GI	none	Score	.8
Exons	5213..5520, 5600..5683, 5775..5933, 6718..10352, 11124..11323		

Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o7.tm	Method	TBLASTX:Maize



Start	6696	End	6941
GI	none	Score	39
Exons	6696..6758, 6728..6940, 6819..6941		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o2.np	Method	AAT/NAP
Start	6704	End	11339
GI	4680179	Score	6029
Exons	6704..11339		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o7.tw	Method	TBLASTX:Wheat
Start	6749	End	7082
GI	none	Score	110
Exons	6749..7081, 6813..7082		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o1.tm	Method	TBLASTX:Maize
Start	6941	End	7528
GI	none	Score	131
Exons	6941..7210, 6942..7202, 7271..7369, 7272..7367, 7301..7369, 7367..7528, 7374..7520, 7376..7525		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o1.tw	Method	TBLASTX:Wheat
Start	7082	End	7708
GI	none	Score	352
Exons	7082..7708, 7083..7652		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o3.tm	Method	TBLASTX:Maize
Start	7577	End	7867
GI	none	Score	156
Exons	7577..7867, 7580..7798		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o2.ts	Method	TBLASTX:Soybean
Start	7667	End	7927
GI	none	Score	54
Exons	7667..7735, 7667..7927, 7821..7922		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339

Name	OJ000250_92.0223.C13.o1.tc	Method	TBLASTX:Cress
Start	7691	End	8017
GI	none	Score	69
Exons	7691..7834, 7692..7769, 7835..8017		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o3.tw	Method	TBLASTX:Wheat
Start	7715	End	8194
GI	none	Score	219
Exons	7715..8194, 7716..8099, 8015..8176		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o2.tw	Method	TBLASTX:Wheat
Start	8198	End	8707
GI	none	Score	303
Exons	8198..8707, 8289..8675		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o2.tm	Method	TBLASTX:Maize
Start	8282	End	8635
GI	none	Score	159
Exons	8282..8635, 8297..8593, 8367..8633		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o3.ts	Method	TBLASTX:Soybean
Start	8456	End	8698
GI	none	Score	197
Exons	8456..8698		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o10.tw	Method	TBLASTX:Wheat
Start	9062	End	9175
GI	none	Score	118
Exons	9062..9154, 9062..9175, 9063..9173		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o9.tw	Method	TBLASTX:Wheat
Start	9716	End	10070
GI	none	Score	77
Exons	9716..9886, 9716..10069, 9975..10070		
Seq. No.	28266	Seq. ID	OJ000250_92.0223.C13
Gene No.	58166	Strand	-
Start	5213	End	11339
Name	OJ000250_92.0223.C13.o6.tm	Method	TBLASTX:Maize

Start 9803  
 GI none  
 Exons 9803..10123

End 10123  
 Score 210

Seq. No. 28267 Seq. ID OJ000250\_92.0223.C14  
 Gene No. 58167 Strand +  
 Start 1 End 542  
 Name OJ000250\_92.0223.C14.o1.np Method AAT/NAP  
 Start 1 End 542  
 GI 6498441 Score 729  
 Exons 1..542  
 GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 28267 Seq. ID OJ000250\_92.0223.C14  
 Gene No. 58167 Strand +  
 Start 1 End 542  
 Name OJ000250\_92.0223.C14.o1.tw Method TBLASTX:Wheat  
 Start 32 End 397  
 GI none Score 292  
 Exons 32..391, 34..162, 131..397

Seq. No. 28268 Seq. ID OJ000250\_92.0223.C15  
 Gene No. 58168 Strand +  
 Start 4684 End 11252  
 Name OJ000250\_92.0223.C15.o2.gs Method GENSCAN  
 Start 4684 End 11252  
 GI none Score .69  
 Exons 4684..4779, 5303..5464, 8261..8483, 8757..9129, 9208..9349, 10049..10207, 10292..10354, 10685..10793, 11089..11252

Seq. No. 28268 Seq. ID OJ000250\_92.0223.C15  
 Gene No. 58168 Strand +  
 Start 4684 End 11252  
 Name OJ000250\_92.0223.C15.o3.np Method AAT/NAP  
 Start 8279 End 10873  
 GI 6492266 Score 570  
 Exons 8279..8416, 8447..8495, 8796..9126, 9208..9346, 10049..10207, 10292..10354, 10685..10873  
 GI Descrip. (AF110228) nuclear RNA binding protein A [Spinacia oleracea]

Seq. No. 28268 Seq. ID OJ000250\_92.0223.C15  
 Gene No. 58168 Strand +  
 Start 4684 End 11252  
 Name OJ000250\_92.0223.C15.o1.gp Method AAT/GAP  
 Start 8413 End 11131  
 GI 535 2.R1084 Score 2332  
 Exons 8413..8483, 8757..9129, 9208..9349, 10049..10207, 10292..10354, 10685..11131  
 GI Descrip. '2104681/emb|CAA66481| 2.0e-29 (X97907) transcription factor [Vicia faba]'

Seq. No. 28268 Seq. ID OJ000250\_92.0223.C15  
 Gene No. 58169 Strand -  
 Start 441 End 3656  
 Name OJ000250\_92.0223.C15.o1.gs Method GENSCAN

Start	441	End	3656
GI	none	Score	.64
Exons	441..847, 888..2394, 2469..3242, 3267..3656		

  

Seq. No.	28268	Seq. ID	OJ000250_92.0223.C15
Gene No.	58169	Strand	-
Start	441	End	3656
Name	OJ000250_92.0223.C15.o1.np	Method	AAT/NAP
Start	444	End	3656
GI	5803259	Score	4167
Exons	444..2291, 2395..3656		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

  

Seq. No.	28268	Seq. ID	OJ000250_92.0223.C15
Gene No.	58170	Strand	-
Start	4731	End	5497
Name	OJ000250_92.0223.C15.o2.np	Method	AAT/NAP
Start	4731	End	5497
GI	5922623	Score	135
Exons	4731..4875, 5404..5497		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

  

Seq. No.	28268	Seq. ID	OJ000250_92.0223.C15
Gene No.	58171	Strand	-
Start	11436	End	12670
Name	OJ000250_92.0223.C15.o2.tm	Method	TBLASTX:Maize
Start	8273	End	9361
GI	none	Score	81
Exons	8273..8329, 8446..8547, 8793..8900, 9001..9129, 9002..9130, 9200..9346, 9208..9288, 9224..9361		

  

Seq. No.	28268	Seq. ID	OJ000250_92.0223.C15
Gene No.	58171	Strand	-
Start	11436	End	12670
Name	OJ000250_92.0223.C15.o1.tm	Method	TBLASTX:Maize
Start	10096	End	10932
GI	none	Score	141
Exons	10096..10209, 10096..10206, 10097..10213, 10279..10353, 10290..10352, 10292..10366, 10292..10354, 10683..10931, 10683..10931, 10684..10932		

  

Seq. No.	28268	Seq. ID	OJ000250_92.0223.C15
Gene No.	58171	Strand	-
Start	11436	End	12670
Name	OJ000250_92.0223.C15.o3.gs	Method	GENSCAN
Start	11436	End	12670
GI	none	Score	.78
Exons	11436..11891, 11954..12048, 12118..12670		

  

Seq. No.	28268	Seq. ID	OJ000250_92.0223.C15
Gene No.	58171	Strand	-
Start	11436	End	12670
Name	OJ000250_92.0223.C15.o3.tm	Method	TBLASTX:Maize
Start	11700	End	11955
GI	none	Score	137

Exons 11700..11954, 11707..11955

Seq. No.	28269	Seq. ID	OJ000250_92.0223.C16
Gene No.	58172	Strand	+
Start	1	End	2094
Name	OJ000250_92.0223.C16.o1.np	Method	AAT/NAP
Start	1	End	2094
GI	6069646	Score	862
Exons	1..51, 374..821, 1103..2094		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	28269	Seq. ID	OJ000250_92.0223.C16
Gene No.	58173	Strand	-
Start	3147	End	3797
Name	OJ000250_92.0223.C16.o1.tm	Method	TBLASTX:Maize
Start	376	End	1056
GI	none	Score	184
Exons	376..531, 377..586, 596..706, 601..714, 602..829, 781..831, 801..905, 841..1056, 844..1047		

Seq. No.	28269	Seq. ID	OJ000250_92.0223.C16
Gene No.	58173	Strand	-
Start	3147	End	3797
Name	OJ000250_92.0223.C16.o3.tm	Method	TBLASTX:Maize
Start	1060	End	1356
GI	none	Score	204
Exons	1060..1356, 1065..1208, 1246..1326		

Seq. No.	28269	Seq. ID	OJ000250_92.0223.C16
Gene No.	58173	Strand	-
Start	3147	End	3797
Name	OJ000250_92.0223.C16.o2.tm	Method	TBLASTX:Maize
Start	1522	End	2070
GI	none	Score	71
Exons	1522..1614, 1568..1765, 1626..1859, 1627..1857, 1882..2070		

Seq. No.	28269	Seq. ID	OJ000250_92.0223.C16
Gene No.	58173	Strand	-
Start	3147	End	3797
Name	OJ000250_92.0223.C16.o1.tw	Method	TBLASTX:Wheat
Start	1626	End	1818
GI	none	Score	212
Exons	1626..1784, 1630..1818		

Seq. No.	28269	Seq. ID	OJ000250_92.0223.C16
Gene No.	58173	Strand	-
Start	3147	End	3797
Name	OJ000250_92.0223.C16.o2.gs	Method	GENSCAN
Start	3147	End	3797
GI	none	Score	.57
Exons	3147..3797		

Seq. No.	28269	Seq. ID	OJ000250_92.0223.C16
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Gene No.	58173	Strand	-
Start	3147	End	3797
Name	OJ000250_92.0223.C16.o4.tm	Method	TBLASTX:Maize
Start	3392	End	3659
GI	none	Score	132
Exons	3392..3649, 3409..3654, 3411..3659		

  

Seq. No.	28270	Seq. ID	OJ000250_92.0223.C17
Gene No.	58174	Strand	-
Start	1	End	503
Name	OJ000250_92.0223.C17.o1.np	Method	AAT/NAP
Start	1	End	503
GI	6016871	Score	114
Exons	1..89, 163..503		
GI Descrip.	(AP000570) EST C98565(E0414) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

  

Seq. No.	28270	Seq. ID	OJ000250_92.0223.C17
Gene No.	58175	Strand	-
Start	1248	End	4923
Name	OJ000250_92.0223.C17.o2.np	Method	AAT/NAP
Start	1248	End	4923
GI	6069646	Score	439
Exons	1248..2239, 4874..4923		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

  

Seq. No.	28270	Seq. ID	OJ000250_92.0223.C17
Gene No.	58175	Strand	-
Start	1248	End	4923
Name	OJ000250_92.0223.C17.o1.tm	Method	TBLASTX:Maize
Start	1275	End	1834
GI	none	Score	90
Exons	1275..1487, 1488..1691, 1506..1682, 1739..1834, 1744..1833		

  

Seq. No.	28270	Seq. ID	OJ000250_92.0223.C17
Gene No.	58175	Strand	-
Start	1248	End	4923
Name	OJ000250_92.0223.C17.o3.np	Method	AAT/NAP
Start	1400	End	4550
GI	6016871	Score	355
Exons	1400..1470, 2601..3714, 3769..4073, 4502..4550		
GI Descrip.	(AP000570) EST C98565(E0414) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

  

Seq. No.	28271	Seq. ID	OJ000250_92.0223.C18
Gene No.	58176	Strand	+
Start	1926	End	2410
Name	OJ000250_92.0223.C18.o1.gp	Method	AAT/GAP
Start	1926	End	2410
GI	uC-osroM202029c03a1	Score	950
Exons	1926..2410		
GI Descrip.	'2146774/pir  S71207 2.0e-27 serine acetyltransferase (EC 2.3.1.30) Sat-52 - Arabidopsis thaliana >gi_905391 (U30298)		

serine acetyltransferase [Arabidopsis thaliana]'

Seq. No.	28271	Seq. ID	OJ000250_92.0223.C18
Gene No.	58177	Strand	-
Start	2144	End	2534
Name	OJ000250_92.0223.C18.o1.tm	Method	TBLASTX:Maize
Start	2110	End	2534
GI	none	Score	72
Exons	2110..2430, 2112..2183, 2114..2533, 2117..2416, 2355..2534		

Seq. No.	28271	Seq. ID	OJ000250_92.0223.C18
Gene No.	58177	Strand	-
Start	2144	End	2534
Name	OJ000250_92.0223.C18.o1.tc	Method	TBLASTX:Cress
Start	2144	End	2534
GI	none	Score	140
Exons	2144..2533, 2153..2437, 2355..2534		

Seq. No.	28271	Seq. ID	OJ000250_92.0223.C18
Gene No.	58177	Strand	-
Start	2144	End	2534
Name	OJ000250_92.0223.C18.o2.gs	Method	GENSCAN
Start	2144	End	2476
GI	none	Score	.74
Exons	2144..2476		

Seq. No.	28271	Seq. ID	OJ000250_92.0223.C18
Gene No.	58177	Strand	-
Start	2144	End	2534
Name	OJ000250_92.0223.C18.o1.np	Method	AAT/NAP
Start	2147	End	2534
GI	2146774	Score	538
Exons	2147..2534		
GI Descrip.	serine acetyltransferase (EC 2.3.1.30) Sat-52 - Arabidopsis thaliana gi 905391 (U30298) serine acetyltransferase [Arabidopsis thaliana]		

Seq. No.	28271	Seq. ID	OJ000250_92.0223.C18
Gene No.	58177	Strand	-
Start	2144	End	2534
Name	OJ000250_92.0223.C18.o1.ts	Method	TBLASTX:Soybean
Start	2210	End	2534
GI	none	Score	136
Exons	2210..2437, 2210..2482, 2361..2459, 2427..2534, 2459..2533		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o1.np	Method	AAT/NAP
Start	2783	End	3223
GI	6523547	Score	81
Exons	2783..3223		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+

Start	2783	End	11230
Name	OJ000250_92.0223.C20.o1.gs	Method	GENSCAN
Start	3106	End	10746
GI	none	Score	.85
Exons	3106..3230, 3330..3431, 3726..3834, 4363..4438, 4528..5142, 5195..5367, 5947..6069, 6146..6221, 6301..6494, 6617..6808, 6897..6965, 7746..7955, 9603..9752, 10284..10345, 10429..10504, 10576..10746		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o2.np	Method	AAT/NAP
Start	4417	End	10749
GI	4582783	Score	2046
Exons	4417..4438, 4528..5474, 5566..5617, 5947..6069, 6146..6221, 6310..6494, 6617..6808, 6897..6965, 7743..7955, 8234..8359, 9603..9752, 10284..10345, 10429..10504, 10576..10749		
GI Descrip.	(AJ006752) starch synthase, isoform V [Vigna unguiculata]		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o2.tm	Method	TBLASTX:Maize
Start	5028	End	5410
GI	none	Score	113
Exons	5028..5129, 5028..5138, 5029..5142, 5029..5142, 5102..5410, 5128..5409		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o1.tm	Method	TBLASTX:Maize
Start	5412	End	6685
GI	none	Score	70
Exons	5412..5483, 5413..5472, 5563..5619, 5564..5620, 5929..6069, 5945..6070, 5946..6071, 5946..6071, 5947..6099, 6140..6247, 6143..6226, 6144..6245, 6305..6493, 6309..6494, 6312..6494, 6572..6685, 6610..6681, 6617..6685		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o2.gp	Method	AAT/GAP
Start	6130	End	6819
GI	4715636	Score	840
Exons	6130..6221, 6310..6494, 6617..6819		
GI Descrip.	2832698/emb CAA16796.1  2.0e-62 (AL021713) starch synthase-like protein [Arabidopsis thaliana]		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o1.ts	Method	TBLASTX:Soybean
Start	6306	End	6682
GI	none	Score	290
Exons	6306..6494, 6308..6490, 6572..6682, 6610..6678		



Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o1.tc	Method	TBLASTX:Cress
Start	6323	End	6769
GI	none	Score	163
Exons	6323..6454, 6324..6452, 6435..6494, 6449..6493, 6572..6769, 6616..6735		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o2.ts	Method	TBLASTX:Soybean
Start	6915	End	10333
GI	none	Score	68
Exons	6915..6962, 7740..7958, 7745..7957, 8233..8355, 8234..8368, 8234..8431, 9600..9755, 9605..9751, 10280..10333, 10281..10331		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o3.tm	Method	TBLASTX:Maize
Start	7731	End	7994
GI	none	Score	325
Exons	7731..7967, 7744..7986, 7745..7966, 7770..7994		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o4.tm	Method	TBLASTX:Maize
Start	9602	End	10691
GI	none	Score	231
Exons	9602..9748, 9609..9755, 9609..9755, 10281..10343, 10281..10343, 10297..10344, 10409..10504, 10425..10505, 10427..10504, 10572..10691, 10573..10686, 10587..10691		

Seq. No.	28272	Seq. ID	OJ000250_92.0223.C20
Gene No.	58178	Strand	+
Start	2783	End	11230
Name	OJ000250_92.0223.C20.o3.gp	Method	AAT/GAP
Start	10429	End	11230
GI	2287_1.R1084	Score	1353
Exons	10429..10504, 10576..11230		
GI Descrip.	'3309575 2.0e-26 (AF060553) calcium sensor homolog [Arabidopsis thaliana] >gi_4538989_emb_CAB39731.1_ (Y18870) CBL4 protein [Arabidopsis thaliana]'		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58179	Strand	+
Start	1	End	9183
Name	OJ000250_92.0223.C21.o1.gp	Method	AAT/GAP
Start	1	End	2237
GI	21907_1.R1084	Score	1276
Exons	1..58, 1635..2237		
GI Descrip.	'2674203/gb AAB88706.1  7.0e-30 (AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]'		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58179	Strand	+
Start	1	End	9183
Name	OJ000250_92.0223.C21.o1.np	Method	AAT/NAP
Start	1	End	1866
GI	1171866	Score	482
Exons	1..58, 1635..1866		
GI Descrip.	NADH-UBIQUINONE OXIDOREDUCTASE 20 KD SUBUNIT PRECURSOR (COMPLEX I-20KD) (CI-20KD) gi 629601 pir  S48826 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain PSST - wild cabbage gi 562282 emb CAA57725  (X82274) PSST subunit of NADH: ubiquinone oxidoreductase [Brassica oleracea]		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58179	Strand	+
Start	1	End	9183
Name	OJ000250_92.0223.C21.o1.gs	Method	GENSCAN
Start	9	End	5033
GI	none	Score	.6
Exons	9..58, 1635..1856, 2707..2827, 2852..3141, 4257..4396, 5014..5033		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58179	Strand	+
Start	1	End	9183
Name	OJ000250_92.0223.C21.o2.np	Method	AAT/NAP
Start	2960	End	4440
GI	4539417	Score	426
Exons	2960..3141, 4257..4440		
GI Descrip.	(AL049171) putative protein [Arabidopsis thaliana]		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58179	Strand	+
Start	1	End	9183
Name	OJ000250_92.0223.C21.o3.np	Method	AAT/NAP
Start	3601	End	9178
GI	2674203	Score	722
Exons	3601..3631, 5831..5917, 6142..6213, 6289..6379, 6463..6542, 6681..6731, 7050..7124, 7211..7288, 7994..8121, 8220..8319, 8399..8503, 8588..8650, 8765..8887, 8954..9178		
GI Descrip.	(AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58179	Strand	+
Start	1	End	9183
Name	OJ000250_92.0223.C21.o2.gs	Method	GENSCAN
Start	5714	End	9183
GI	none	Score	.69
Exons	5714..5947, 6142..6200, 6279..6379, 6463..6542, 6681..6731, 7050..7124, 7211..7288, 7525..7581, 8399..8503, 8588..8650, 8765..8887, 8954..9145, 9151..9183		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58179	Strand	+
Start	1	End	9183

Name OJ000250\_92.0223.C21.o2.gp Method AAT/GAP  
 Start 6349 End 6732  
 GI 2800778 Score 245  
 Exons 6349..6379, 6463..6542, 6681..6732  
 GI Descrip. 2674203/gb|AAB88706.1| 7.0e-30 (AF036328) CLP protease  
 regulatory subunit CLPX [Arabidopsis thaliana]

Seq. No. 28273 Seq. ID OJ000250\_92.0223.C21  
 Gene No. 58179 Strand +  
 Start 1 End 9183  
 Name OJ000250\_92.0223.C21.o3.gp Method AAT/GAP  
 Start 6430 End 6739  
 GI 2800778 Score 209  
 Exons 6430..6542, 6681..6739  
 GI Descrip. 2674203/gb|AAB88706.1| 7.0e-30 (AF036328) CLP protease  
 regulatory subunit CLPX [Arabidopsis thaliana]

Seq. No. 28273 Seq. ID OJ000250\_92.0223.C21  
 Gene No. 58179 Strand +  
 Start 1 End 9183  
 Name OJ000250\_92.0223.C21.o4.gp Method AAT/GAP  
 Start 8211 End 8887  
 GI LIB3432-004-P1-K1-C10 Score 732  
 Exons 8211..8319, 8399..8503, 8588..8650, 8765..8887  
 GI Descrip. '2674203/gb|AAB88706.1| 7.0e-30 (AF036328) CLP protease  
 regulatory subunit CLPX [Arabidopsis thaliana]'

Seq. No. 28273 Seq. ID OJ000250\_92.0223.C21  
 Gene No. 58180 Strand +  
 Start 12665 End 14922  
 Name OJ000250\_92.0223.C21.o5.gp Method AAT/GAP  
 Start 12665 End 13099  
 GI uC-osflcyp140c05b1 Score 820  
 Exons 12665..13099  
 GI Descrip. '2832698/emb|CAA16796.1| 2.0e-62 (AL021713) starch synthase-like  
 protein [Arabidopsis thaliana]'

Seq. No. 28273 Seq. ID OJ000250\_92.0223.C21  
 Gene No. 58180 Strand +  
 Start 12665 End 14922  
 Name OJ000250\_92.0223.C21.o5.np Method AAT/NAP  
 Start 12907 End 14922  
 GI 6850868 Score 594  
 Exons 12907..13344, 14764..14922  
 GI Descrip. (AL132959) putative protein [Arabidopsis thaliana]

Seq. No. 28273 Seq. ID OJ000250\_92.0223.C21  
 Gene No. 58181 Strand +  
 Start 28850 End 32155  
 Name OJ000250\_92.0223.C21.o4.gs Method GENSCAN  
 Start 28850 End 32155  
 GI none Score .83  
 Exons 28850..30108, 30208..30835, 30893..32155

Seq. No. 28273 Seq. ID OJ000250\_92.0223.C21  
 Gene No. 58181 Strand +  
 Start 28850 End 32155

Name	OJ000250_92.0223.C21.o6.np	Method	AAT/NAP
Start	28850	End	32152
GI	6907089	Score	4214
Exons	28850..30108, 30208..32152		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58182	Strand	-
Start	9742	End	22188
Name	OJ000250_92.0223.C21.o3.gs	Method	GENSCAN
Start	9742	End	22188
GI	none	Score	.43
Exons	9742..11097, 11548..11682, 12651..12900, 12937..13377, 15465..15648, 16063..16075, 18279..18442, 18638..18985, 20924..20995, 22131..22188		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58182	Strand	-
Start	9742	End	22188
Name	OJ000250_92.0223.C21.o4.np	Method	AAT/NAP
Start	9859	End	11750
GI	6723394	Score	877
Exons	9859..11750		
GI Descrip.	(AL132956) putative protein [Arabidopsis thaliana]		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o2.tc	Method	TBLASTX:Cress
Start	2	End	1870
GI	none	Score	101
Exons	2..58, 3..83, 1602..1652, 1619..1867, 1626..1868, 1631..1678, 1639..1866, 1733..1870		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o7.tm	Method	TBLASTX:Maize
Start	2	End	1891
GI	none	Score	101
Exons	2..58, 3..83, 3..77, 1626..1874, 1631..1891, 1639..1866		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o4.ts	Method	TBLASTX:Soybean
Start	1710	End	1891
GI	none	Score	232
Exons	1710..1868, 1712..1891, 1735..1866, 1739..1870		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o4.tc	Method	TBLASTX:Cress
Start	2944	End	4437
GI	none	Score	186
Exons	2944..3141, 2945..3139, 4254..4433, 4255..4437		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o8.tm	Method	TBLASTX:Maize
Start	2953	End	4461
GI	none	Score	195
Exons	2953..3141, 2954..3139, 3040..3141, 4254..4439, 4255..4461		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o2.ts	Method	TBLASTX:Soybean
Start	2960	End	4443
GI	none	Score	142
Exons	2960..3139, 3040..3141, 4254..4439, 4255..4443		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o3.tc	Method	TBLASTX:Cress
Start	5825	End	9097
GI	none	Score	98
Exons	5825..5920, 5851..5919, 6139..6213, 6322..6381, 6351..6380, 6459..6575, 6461..6556, 6677..6733, 6678..6740, 7053..7124, 7062..7124, 7208..7288, 7232..7291, 8045..8122, 8056..8121, 8235..8321, 8399..8506, 8401..8487, 8582..8653, 8587..8652, 8761..8886, 8765..8890, 8927..9097, 8953..9081		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o6.tm	Method	TBLASTX:Maize
Start	5825	End	9111
GI	none	Score	104
Exons	5825..5920, 5851..5919, 6139..6192, 6304..6381, 6354..6380, 6459..6575, 6461..6556, 6678..6740, 6680..6733, 7053..7124, 7232..7291, 8045..8122, 8047..8121, 8399..8506, 8401..8544, 8580..8651, 8582..8653, 8584..8655, 8734..8886, 8765..8890, 8951..9025, 8953..9024, 9034..9111, 9035..9085		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o3.ts	Method	TBLASTX:Soybean
Start	8776	End	9085
GI	none	Score	135
Exons	8776..8886, 8777..8890, 8951..9085, 8953..9081		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o9.tm	Method	TBLASTX:Maize
Start	10060	End	10297
GI	none	Score	64
Exons	10060..10296, 10131..10283, 10133..10297		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o10.tm	Method	TBLASTX:Maize
Start	10376	End	10568
GI	none	Score	109
Exons	10376..10507, 10378..10566, 10378..10566, 10491..10568		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o1.tm	Method	TBLASTX:Maize
Start	10570	End	11079
GI	none	Score	238
Exons	10570..10839, 10570..10848, 10580..10858, 10841..11056, 10843..11079, 10843..11079		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o2.tm	Method	TBLASTX:Maize
Start	12996	End	14983
GI	none	Score	508
Exons	12996..13346, 12997..13347, 13249..13359, 14761..14946, 14762..14983, 14763..14924		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o1.tc	Method	TBLASTX:Cress
Start	13042	End	14883
GI	none	Score	368
Exons	13042..13347, 13044..13346, 14761..14883, 14763..14879		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o11.tm	Method	TBLASTX:Maize
Start	32732	End	32913
GI	none	Score	129
Exons	32732..32908, 32746..32913		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o7.np	Method	AAT/NAP
Start	32773	End	37135
GI	6498441	Score	5238
Exons	32773..33054, 33148..34545, 34717..35199, 35392..35632, 35807..35941, 36125..36498, 36562..37031, 37118..37135		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135

Name	OJ000250_92.0223.C21.o6.tw	Method	TBLASTX:Wheat
Start	32782	End	33360
GI	none	Score	83
Exons	32782..32907, 32786..32908, 32968..33336, 33094..33360, 33101..33343		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o4.tw	Method	TBLASTX:Wheat
Start	33365	End	33766
GI	none	Score	173
Exons	33365..33664, 33385..33765, 33710..33766		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o4.tm	Method	TBLASTX:Maize
Start	33571	End	33903
GI	none	Score	92
Exons	33571..33783, 33580..33903, 33593..33886		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o7.tw	Method	TBLASTX:Wheat
Start	34096	End	34408
GI	none	Score	67
Exons	34096..34356, 34232..34408		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o5.ts	Method	TBLASTX:Soybean
Start	34156	End	34722
GI	5666795	Score	68
Exons	34156..34356, 34411..34548, 34624..34722		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o5.tw	Method	TBLASTX:Wheat
Start	34411	End	34872
GI	none	Score	91
Exons	34411..34560, 34412..34549, 34414..34551, 34607..34780, 34621..34872, 34621..34845		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o1.ts	Method	TBLASTX:Soybean
Start	35470	End	35841
GI	none	Score	90
Exons	35470..35841, 35681..35824		

Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
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Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o2.tw	Method	TBLASTX:Wheat
Start	35495	End	35920
GI	none	Score	333
Exons	35495..35920, 35500..35919		
Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o5.tm	Method	TBLASTX:Maize
Start	35593	End	35977
GI	none	Score	226
Exons	35593..35976, 35612..35977		
Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o3.tm	Method	TBLASTX:Maize
Start	36004	End	36360
GI	none	Score	110
Exons	36004..36309, 36004..36360, 36014..36325		
Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o1.tw	Method	TBLASTX:Wheat
Start	36028	End	36491
GI	none	Score	388
Exons	36028..36489, 36029..36490, 36048..36491		
Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o6.ts	Method	TBLASTX:Soybean
Start	36085	End	36450
GI	none	Score	109
Exons	36085..36219, 36226..36450		
Seq. No.	28273	Seq. ID	OJ000250_92.0223.C21
Gene No.	58183	Strand	-
Start	32773	End	37135
Name	OJ000250_92.0223.C21.o3.tw	Method	TBLASTX:Wheat
Start	36658	End	37129
GI	none	Score	165
Exons	36658..37128, 36686..36946, 36968..37129		
Seq. No.	28274	Seq. ID	OJ000250_92.0223.C22
Gene No.	58184	Strand	-
Start	1	End	1996
Name	OJ000250_92.0223.C22.o1.np	Method	AAT/NAP
Start	1	End	1996
GI	5042454	Score	2526
Exons	1..1390, 1446..1548, 1880..1996		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	28274	Seq. ID	OJ000250_92.0223.C22



Gene No.	58184	Strand	-
Start	1	End	1996
Name	OJ000250_92.0223.C22.o1.gs	Method	GENSCAN
Start	90	End	1934
GI	none	Score	.65
Exons	90..1390, 1446..1639, 1884..1934		

Seq. No.	28274	Seq. ID	OJ000250_92.0223.C22
Gene No.	58184	Strand	-
Start	1	End	1996
Name	OJ000250_92.0223.C22.o1.tw	Method	TBLASTX:Wheat
Start	329	End	721
GI	none	Score	83
Exons	329..586, 441..602, 569..667, 570..650, 674..721		

Seq. No.	28274	Seq. ID	OJ000250_92.0223.C22
Gene No.	58184	Strand	-
Start	1	End	1996
Name	OJ000250_92.0223.C22.o1.tm	Method	TBLASTX:Maize
Start	431	End	716
GI	none	Score	89
Exons	431..679, 432..716		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58185	Strand	+
Start	1092	End	2593
Name	OJ000250_92.0223.C23.o1.np	Method	AAT/NAP
Start	1092	End	2593
GI	3309575	Score	482
Exons	1092..1170, 1363..1445, 1572..1631, 1752..1860, 1946..1998, 2125..2205, 2310..2422, 2518..2593		
GI Descrip.	(AF060553) calcium sensor homolog [Arabidopsis thaliana] gi 4538989 emb CAB39731.1  (Y18870) CBL4 protein [Arabidopsis thaliana]		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58185	Strand	+
Start	1092	End	2593
Name	OJ000250_92.0223.C23.o1.gp	Method	AAT/GAP
Start	2112	End	2583
GI	2311327	Score	434
Exons	2112..2205, 2310..2422, 2518..2583		
GI Descrip.	3309575 2.0e-26 (AF060553) calcium sensor homolog [Arabidopsis thaliana] >gi_4538989_emb_CAB39731.1_ (Y18870) CBL4 protein [Arabidopsis thaliana]		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58186	Strand	+
Start	9759	End	10140
Name	OJ000250_92.0223.C23.o2.gp	Method	AAT/GAP
Start	9759	End	10140
GI	88724_1.R1084	Score	718
Exons	9759..10140		
GI Descrip.	'5902379/gb AAD55481.1 AC009322_21 2.0e-15 (AC009322) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
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Gene No.	58187	Strand	+
Start	19870	End	28847
Name	OJ000250_92.0223.C23.o4.gs	Method	GENSCAN
Start	19870	End	28847
GI	none	Score	.79
Exons	19870..19900, 20109..20339, 20904..20955, 21465..21526, 21998..22104, 22204..22611, 22971..23402, 23493..23636, 23705..23821, 24470..24608, 24871..24886, 25687..25879, 26088..28847		

  

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58187	Strand	+
Start	19870	End	28847
Name	OJ000250_92.0223.C23.o5.gp	Method	AAT/GAP
Start	20089	End	22054
GI	56594_1.R1084	Score	867
Exons	20089..20339, 21465..21526, 21689..21776, 21866..21927, 22011..22054		
GI Descrip.	'3063455 1.0e-40 (AC003981) F22013.17 [Arabidopsis thaliana]'		

  

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58187	Strand	+
Start	19870	End	28847
Name	OJ000250_92.0223.C23.o4.np	Method	AAT/NAP
Start	20241	End	21934
GI	3063455	Score	320
Exons	20241..20339, 21465..21526, 21689..21776, 21866..21934		
GI Descrip.	(AC003981) F22013.17 [Arabidopsis thaliana]		

  

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58187	Strand	+
Start	19870	End	28847
Name	OJ000250_92.0223.C23.o6.gp	Method	AAT/GAP
Start	22207	End	23020
GI	none	Score	858
Exons	22207..22611, 22971..23020		

  

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58187	Strand	+
Start	19870	End	28847
Name	OJ000250_92.0223.C23.o7.gp	Method	AAT/GAP
Start	23348	End	25108
GI	none	Score	1559
Exons	23348..23402, 23493..23636, 23705..23821, 24470..24608, 24717..25108		

  

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58187	Strand	+
Start	19870	End	28847
Name	OJ000250_92.0223.C23.o5.np	Method	AAT/NAP
Start	25155	End	28302
GI	4558664	Score	459
Exons	25155..25191, 26524..27134, 27426..27537, 27752..28302		
GI Descrip.	(AC007063) hypothetical protein [Arabidopsis thaliana]		

  

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58188	Strand	+

Start	34175	End	35346
Name	OJ000250_92.0223.C23.o6.gs		Method GENSCAN
Start	34175	End	35346
GI	none	Score	.6
Exons	34175..34319, 34334..34452, 34822..34944, 34958..35003, 35105..35346		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58189	Strand	+
Start	40972	End	49268
Name	OJ000250_92.0223.C23.o8.gs		Method GENSCAN
Start	40972	End	49268
GI	none	Score	.76
Exons	40972..41026, 41510..41616, 41697..42530, 42953..43193, 45311..45523, 46127..46233, 46314..46472, 46598..47149, 47249..47407, 47514..47877, 49063..49268		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58189	Strand	+
Start	40972	End	49268
Name	OJ000250_92.0223.C23.o7.np		Method AAT/NAP
Start	41730	End	43339
GI	5803254	Score	707
Exons	41730..42530, 42673..42822, 42953..43339		
GI Descrip.	(AP000399) ESTs C97429(C60159), D22427(C11106), AU078031(E31854), D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58190	Strand	+
Start	49866	End	52103
Name	OJ000250_92.0223.C23.o8.np		Method AAT/NAP
Start	49728	End	52103
GI	1438881	Score	580
Exons	49728..50084, 51668..51789, 51908..52103		
GI Descrip.	(U43839) GmCK2p [Glycine max]		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58190	Strand	+
Start	49866	End	52103
Name	OJ000250_92.0223.C23.o9.gs		Method GENSCAN
Start	49866	End	52103
GI	none	Score	.88
Exons	49866..50084, 51509..51612, 51908..52103		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58191	Strand	-
Start	2523	End	17025
Name	OJ000250_92.0223.C23.o2.gs		Method GENSCAN
Start	2523	End	17025
GI	none	Score	.56
Exons	2523..2743, 2853..2927, 3914..4005, 5412..5469, 6084..6212, 6248..6422, 6556..6810, 6871..6897, 7108..7132, 8685..8828, 10247..10321, 11460..11505, 11623..11666, 12610..12732, 12891..13005, 13328..14088, 14186..14444, 14526..14592, 14679..14781, 16523..17025		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58191	Strand	-
Start	2523	End	17025
Name	OJ000250_92.0223.C23.o2.np	Method	AAT/NAP
Start	3836	End	13515
GI	4580391	Score	143
Exons	3836..4005, 6347..6407, 13470..13515		
GI Descrip.	(AC007171) unknown protein [Arabidopsis thaliana]		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58191	Strand	-
Start	2523	End	17025
Name	OJ000250_92.0223.C23.o3.np	Method	AAT/NAP
Start	10623	End	17017
GI	5902379	Score	432
Exons	10623..10659, 12621..12732, 12891..13005, 13328..13707, 13774..14088, 14186..14313, 14509..14589, 14682..14778, 16523..17017		
GI Descrip.	(AC009322) Unknown protein [Arabidopsis thaliana] gi 6453852 gb AAF09036.1 AC011717_3 (AC011717) unknown protein [Arabidopsis thaliana]		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58191	Strand	-
Start	2523	End	17025
Name	OJ000250_92.0223.C23.o3.gp	Method	AAT/GAP
Start	10977	End	11370
GI	3760452	Score	719
Exons	10977..11370		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58191	Strand	-
Start	2523	End	17025
Name	OJ000250_92.0223.C23.o4.gp	Method	AAT/GAP
Start	14248	End	16622
GI	3760088	Score	1029
Exons	14248..14592, 14679..14781, 16523..16622		
GI Descrip.	5902379/gb AAD55481.1 AC009322_21 2.0e-15 (AC009322) Unknown protein [Arabidopsis thaliana]		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58192	Strand	-
Start	19017	End	19292
Name	OJ000250_92.0223.C23.o3.gs	Method	GENSCAN
Start	19017	End	19292
GI	none	Score	.41
Exons	19017..19292		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o1.tc	Method	TBLASTX:Cress
Start	1350	End	2569
GI	none	Score	99
Exons	1350..1445, 1563..1634, 1571..1657, 1740..1853, 1752..1841, 1754..1852, 1948..2001, 2119..2202, 2124..2204, 2307..2423, 2307..2372, 2516..2569		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o3.tm	Method	TBLASTX:Maize
Start	1365	End	2387
GI	none	Score	90
Exons	1365..1445, 1563..1634, 1571..1657, 1739..1840, 1749..1859, 1752..1856, 1942..2001, 2122..2202, 2319..2387		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o3.tw	Method	TBLASTX:Wheat
Start	1563	End	2001
GI	none	Score	61
Exons	1563..1634, 1571..1648, 1739..1828, 1749..1853, 1751..1855, 1752..1856, 1947..2000, 1948..2001		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o2.ts	Method	TBLASTX:Soybean
Start	1752	End	2411
GI	none	Score	128
Exons	1752..1853, 1757..1855, 1948..2001, 2119..2202, 2124..2225, 2307..2411		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o2.tw	Method	TBLASTX:Wheat
Start	2130	End	2569
GI	none	Score	88
Exons	2130..2210, 2131..2205, 2255..2419, 2310..2459, 2313..2423, 2486..2569, 2518..2568		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o4.tm	Method	TBLASTX:Maize
Start	13329	End	13700
GI	none	Score	62
Exons	13329..13370, 13330..13371, 13365..13526, 13366..13524, 13527..13700, 13551..13697, 13552..13698		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o8.tm	Method	TBLASTX:Maize
Start	14365	End	14591
GI	none	Score	80
Exons	14365..14541, 14366..14491, 14415..14591		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918

Name	OJ000250_92.0223.C23.o3.tc	Method	TBLASTX:Cress
Start	26493	End	28364
GI	none	Score	99
Exons	26493..26687, 26493..26687, 26580..26990, 26685..26954, 26778..26954, 26883..27287, 27339..27581, 27375..27587, 27471..27716, 27573..27716, 27717..27785, 27888..28004, 27912..28007, 28017..28202, 28092..28364, 28149..28364, 28182..28310		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o9.tm	Method	TBLASTX:Maize
Start	26493	End	28418
GI	none	Score	87
Exons	26493..26666, 26574..26969, 27171..27350, 27375..27536, 27804..28007, 28134..28418		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o1.tw	Method	TBLASTX:Wheat
Start	26544	End	28364
GI	none	Score	249
Exons	26544..26930, 26604..26930, 26847..27227, 27717..27791, 27804..27986, 28053..28364		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o6.ts	Method	TBLASTX:Soybean
Start	26550	End	28358
GI	none	Score	192
Exons	26550..26933, 26583..26849, 26853..27164, 27369..27530, 27804..28001, 28059..28358		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o7.gs	Method	GENSCAN
Start	35768	End	38917
GI	none	Score	.85
Exons	35768..35852, 35987..36157, 36358..37116, 38559..38917		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o6.np	Method	AAT/NAP
Start	36006	End	38918
GI	6223646	Score	1201
Exons	36006..37116, 38559..38918		
GI Descrip.	(AC011698) putative beta-1,3-glucanase [Arabidopsis thaliana]		

Seq. No.	28275	Seq. ID	OJ000250_92.0223.C23
Gene No.	58193	Strand	-
Start	35768	End	38918
Name	OJ000250_92.0223.C23.o4.ts	Method	TBLASTX:Soybean